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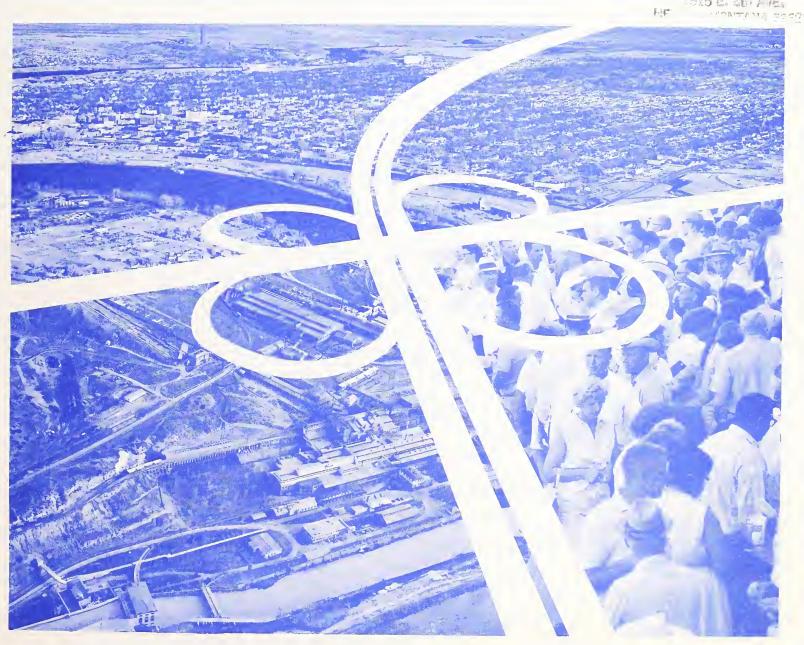
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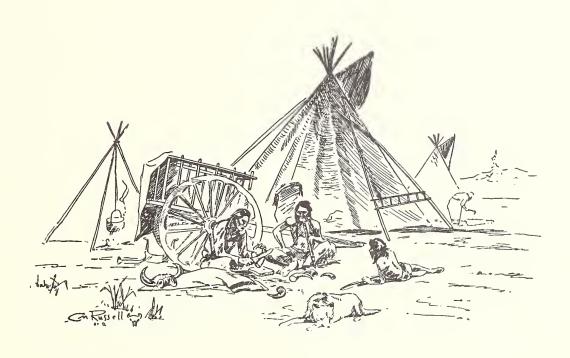
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ECONOMIC AND POPULATION STUDIES TO 1981



THE GREAT FALLS CITY-COUNTY PLANNING BOARD AND

THE MONTANA STATE HIGHWAY COMMISSION
PLANNING SURVEY DIVISION
IN COOPERATION WITH
THE U.S. DEPARTMENT OF COMMERCE
BUREAU OF PUBLIC ROADS



SUMMARY

The Great Falls Metropolitan Area can face its future with the knowledge that its economy can be expected to grow at a steady rate. The Metropolitan Area serves the north central Montana area as the major trade and service center for the region. In addition, it enjoys a role as a small but important manufacturing center on both a national, regional and local scale; it is a stable producer of agricultural commodities, particularly wheat and livestock; it is an important business and financial center serving its region; and in recent years it has benefited from large scale military expenditures as the geographic location for Malmstrom Air Force Base and the Minuteman Missile Complex.

If the question were asked as to whether the area can expect an influx of large and important industry, the answer is "no." No large-scale manufacturing or non-manufacturing industry can be foreseen although it is not completely ruled out as a possibility. Rather, the Metropolitan Area can expect steady and moderate increases in most labor force categories with the exception of agriculture, which is expected to decline. The most promising industrial growth areas are in food and kindred products, where there is a potential for more industrial growth utilizing the agricultural resources produced in the region.

For the most part, the Great Falls Metropolitan Area can be expected to continue its major role as the trade and service center for its trade areas. Manufacturing, although not a dynamically growing industry, will still be important as a source of export income as will trade, services, agriculture, and the military.

In conclusion, the County can be expected to increase in employment from 24,184 in 1960 to a low range of 38,000 and a high range of 39,200 in 1981 — an increase ranging from 57 to 62 percent. With employment growth as the base, population can be expected to increase to a low of 118,750 and a high of 122,500 with a probable estimate of 120,625. This represents a 64 percent increase in population over 1960. The Great Falls urban study area is expected to increase in population to 110,000, which represents a 72 percent increase over 1960.

INTRODUCTION

This report represents one of the phases of the Great Falls-Cascade County Metropolitan Area Transportation Study. This study was initiated in 1961 by the City of Great Falls, Cascade County, the Montana Highway Commission, and the U. S. Bureau of Public Roads with the purpose of planning the long-range transportation needs of the Great Falls Metropolitan Area.

With the passage of the Federal Aid Highway Act of 1962, the Secretary of Commerce was authorized to withhold federal funds for highway projects in urban areas of more than fifty thousand population unless such projects were based upon a "continuing, comprehensive transportation planning process carried on cooperatively by States and local communities." One of the principal requisites of this transportation planning process was the emphasis upon the economic base of the community; how the community makes its living and what influence the community's economy will have upon future growth.

The target date that was selected for future planning purposes was 1981. All past trends pertaining to the local, state, and national economy, as well as present developments and expected future trends, were charted and a balance sheet of plus and minus factors was developed. On this basis the labor force that comprises the various industries (i.e., trade, agriculture, manufacturing, services, government) in the Metropolitan Area was projected to 1981 and from this a 1981 population estimate was derived.

The main purpose of the economic study and its end result, the projection of population, is to arrive at a population estimate that is independent of the demographic approach (i.e., comparing Cascade County with the State, the Mountain Region, and the United States). It is through a "hard-nosed" look at the economy that the most realistic estimates of future growth can be made. This is due to the fact that only job opportunities will keep people in an area and attract people from other areas. Conversely, it is the lack of job opportunities that causes people to migrate elsewhere, which results in an area of declining population.

DATA SOURCES AND METHODOLOGY

Early in the course of this study it was decided that employment would be the basis of analysis and the projection of

the economy. The reasons for this are that employment data has the continuity of tracing past trends back to at least 1920 and that various studies of the national economy along with the various state economies also use employment as the basis for analysis and projection. Thus it was possible for the economic study in the Metropolitan Area to be correlated with state, regional, and national trends and forecasts.

The major source of data utilized in the study was from the Census of Population which contained the breakdown on the employed labor force for every decennial census year. Local data supplied by the Great Falls Office of the Unemployment Compensation Commission of Montana did not cover employment prior to 1950. In addition, the Commission's figures were based on fiscal year estimates and did not cover proprietors and selfemployed, which also made comparison with the Census difficult.

Other major sources of data included the various U. S. Bureau of the Census publications on agriculture, wholesale and retail trade, and manufacturing, supplemented wherever possible by local and state data.

Since the economic study is oriented to the Great Falls Transportation Study area which includes most of Cascade County's population, the description and projection of the economy in the following sections utilizes Cascade County (coextensive with the Great Falls Standard Metropolitan Statistical Area) as the basis for analysis. Wherever it was deemed necessary to separate Great Falls from the rest of the County, this was done, in order to show the importance of Great Falls in a particular phase of the economy.

Employment projections were based, for the most part, on trade area information and the ratio method. Past trends were compared for each industry based upon Cascade County's proportionate share with that of the State of Montana. The State's past and future employment estimates were also compared with projections for the United States made by the National Planning Association. Since the National Planning Association also projected employment for the State of Montana, by industry, for 1976, it was possible to extrapolate this trend to 1981 by assuming the same rate of growth. Our interest in the National Planning Association projections for 1976 employment was in growth rate rather than in absolute numbers of employees since this took into account changing technological requirements which have a definite bearing upon employment requirements.

An additional source utilized in the employment projections was the personal interview data. Here it was possible to draw on first-hand information from Cascade County businessmen and executives as to what their future plans called for in terms of growth and expansion, remaining status quo, or declining.

The Montana State Highway Commission furnished the aerial photograph and several base maps utilized in this report. We wish to express our appreciation for their complete cooperation throughout this study.

I

PHYSICAL BACKGROUND OF THE GREAT FALLS-CASCADE COUNTY AREA

Introduction

Since its founding in 1882 by Paris Gibson, Great Falls has been the trading and commercial center for a large area that includes most of north-central Montana. It assumed its role as a manufacturing center for silver, copper, and zinc smelting due to its location along the Missouri River at Black Eagle Falls which provided abundant and cheap electric power, a major locational factor in smelting operations.

The railroads also played an important part in the economic development of the Great Falls area. The extensions of the Great Northern Railway and the Chicago, Milwaukee, St. Paul & Pacific Railway to Great Falls in 1887 and the subsequent extension of the Great Northern to Helena and Butte where extensive mining operations were underway provided Great Falls with access to the ore-producing areas. Thus Great Falls was able to effectively capitalize on its transportation and power resources and emerge as an industrial city centered around smelting. Other early industrial developments included flour milling and meat packing, and by 1890 Great Falls could point to a population of almost 4,000 persons.

During this same early period of development, agriculture was also important economically. The southern and eastern portions of Cascade County were settled by stockgrowers during the 1880's and with the completion of the railroad through Cascade County in 1888 the more desirable agricultural lands had already been settled. Other agricultural areas in the northwestern part of the County near Ft. Shaw were not opened for settlement until after the completion of irrigation canals by the U. S. Reclamation Service in 1908.

The unlimited water and power resources have been the major factors in the growth and development of Great Falls. There are five hydro-electric plants now in operation in the area. The Black Eagle Dam was built in 1891 and was reconstructed in 1927. The Rainbow Dam was built in 1908 followed by the Ryan Dam, the Morony Dam, and the Cochrane Dam which was completed in 1958. These plants have a total capacity of over 400,000 horsepower. Due to the development of high voltage transmission lines, it is possible for the City to receive an unlimited volume of electric power.

The supply of water to the City from the Missouri River is also unlimited. The water is unusually pure and almost free of minerals and contamination.

In 1889, Great Falls was selected by the Boston and Montana Consolidated Copper and Silver Mining Company as the site for a new copper reduction plant. This plant was completed in 1892 and was the main source of employment in the area. The Anaconda Copper Mining Company acquired this copper reduction plant in 1910. In 1916 it was replaced by modern electrolytic copper and zinc refineries. A wire and cable mill and a ferro-manganese plant were also added at this time. As the operation progressed and expanded, new metal markets were entered and many more additions were made. They added a rare minerals mill in which radium, cadnium, indium and germanium were produced. In 1955 Anaconda started production in its new aluminum rolling mill. At that time, due to the firm's continued diversification, they decided to drop the word "copper" from their name and today it is the Anaconda Company.

Oil and natural gas fields to the north of Great Falls have contributed to the growth of the City. There are 20 oil fields in this region that contain about 3,000 producing wells with an approximate production of 184,000,000 barrels of oil.

The large flour mills of the Montana Flour Mills Company and General Mills, Inc. were constructed as the production of grain increased in the Great Falls area. In these mills the thousands of bushels of wheat harvested each year are converted into flour and other products. The major product is flour for commercial bread baking. The Montana Flour Mills Company also operates an automated feed plant which produces high-quality formula feeds. These two companies have a combined wheat storage capacity of 2,300,000 bushels.

Physical Characteristics

Cascade County is bordered on the south by the Big Belt and Little Belt Mountains and on the east by the Highwood Mountains. Its physiography is characterized by isolated mountain groups separated by low divides and basins. These mountain groups rise several thousand feet above the basins and rolling plains. The major portion of the County covers a transitional area between these mountain groups and the rolling plains.

Drainage

The County is drained by the Missouri River and its tributaries; the Sun, Smith, and Dearborn Rivers, and Belt Creek. The Missouri flows diagonally through the County in a southwest to northeast direction. In the Big Belt Mountains the river has many rapids and cascades. As it flows northward it meanders through a sandy valley 1 to $2\frac{1}{2}$ miles wide to the mouth of the Sun River. At Great Falls the Missouri enters a sandstone gorge and within 10 miles of the City drops more than 500 feet in a series of falls and rapids.

The Sun River, a major tributary to the Missouri, has its headwaters along the Continental Divide and flows in an easterly direction until it enters the Missouri at Great Falls. The Sun has a number of tributaries which are intermittent streams. Simms Creek is the largest tributary which enters the Sun from the south. Those streams entering the Sun from the north include Big Coulee, Mill Coulee, and Little Muddy Creek, all of which are intermittent.

The Smith River drains the south central part of the County and enters the Missouri near Ulm. It flows in a north-northwest direction and it is joined by its main tributary, Hound Creek, in the south central part of the County.

Climate

Lying in the Central Plains Region and east of the Continental Divide, Cascade County has a semi-arid climate. As one goes from the higher to the lower elevations in the County, precipitation decreases, with the higher elevations enjoying comparatively more rainfall. Comparatively low precipitation prevails in the northwestern part of the County with increasing amounts to the south and east on the plateaus and foothills. The average annual precipitation for the area around Great Falls is approximately 14 inches. Most of the precipitation occurs from late March or early April through September, with an average of about 9½ inches for that period. The average frost-free growing season in the County is about 135 days.

Soils

Cascade County has several soil sub-types which vary with the elevation. Soils classified according to color belong to several groups: grayish brown, dark grayish brown, very dark grayish brown, and black. The farm lands in the County are found largely in those areas covered with the dark grayish brown and very dark grayish brown soils while the better grazing districts are found in the very dark grayish brown and black soil areas.

Among the major soil series found in the County are the Morton, Teton, Scobey, Laurel and Blaine loams.

The Morton silt loams are among the more important agricultural soils of the County. These loams were placed under cultivation largely at the time of settlement of the dry-land areas in 1906. The Morton silt loams have good surface drainage and are devoted mostly to spring and fall wheat. Other loam varieties in the Morton series are cultivated in small grains or used as grazing land. The Morton silt loams are generally found in the rolling sandstone benches along the Sun, Missouri and Smith Rivers.

Clay loams in the Morton series around Crown Butte and along the Sun River are utilized mostly for grazing land. This is due to the fact that the clay loams are poorly drained and hence not too suitable for farming purposes. Other clay loam areas are found in the central part of the County west of the Smith River.

Other sub-types within the Morton series are the sandy loams found on the rolling upland tracts along the Missouri River and in the central part of the County, and along the Sun River in the west-central part of the County. Small grains and spring wheat are generally cultivated on these soils. Other sub-types include gravelly loams with a mixed type of use in grain crops and grazing; and stony loams with fairly good grazing capacity. The Morton series is the largest single soil group in the County, comprising almost 22% of the total land area.

Another major soil in the County is the Teton group which includes sub-types such as the Teton loams that extend along the higher portion of the plateau north of the Little Belt Mountains and the benches extending out from the Highwood Mountains. Many large stock ranches were originally located on these loams but after 1910 the areas with tillable land began to be cultivated in spring and winter wheat.

Teton silt loams found along the gently rolling plateaus below the Little Belt Mountains and on the high rolling tracts in the east-central part of the County are devoted to spring and winter wheat, forage crops, and extensive livestock grazing. Teton stony loams which cover the higher and steeper slopes of the plateaus below the Big and Little Belt Mountains in the southern part of the County are mostly classified as non-tillable grazing land with some areas devoted to small grain cultivation. This soil supports some of the best grazing land in the County.

The Scobey group of soils, found in the area east and south of Benton Lake, was originally cultivated in about 1906. Wheat growing predominates in this area, followed by small grains and livestock grazing. Generally, the soils in the Scobey group are very productive and comprise some of the better farming districts in the County.

The soils developed over recent stream deposits are grouped in the Laurel and Choteau series. The Laurel group of soils is generally under cultivation where the land is sub-irrigated. The Choteau series includes a group of undifferentiated stony soils covering poorly drained stream valleys below the mountains which are valuable as wild-hay lands.

Soils of the Joplin series are found chiefly in the northeastern part of the County. The Joplin soils, although suitable for farming, are among the marginal agricultural soils in the County.

The soils of the County are grouped into 26 soil series and soil types and phases. The following table gives the area in square miles of each soil type and physiographic feature, and also the proportion of each soil type according to topography.

AREA AND PROPORTIONATE EXTENT OF EACH SOIL TYPE IN CASCADE COUNTY

		Total and and and and and	Topog	graphy
	Total	Area		Ja aprily
		% of		Sharply
Soil Type			Rolling	
dictable to the state of the st				
Adel				
Adel Loams	19.7	0.7	19.7	0.0
Adel Stony Loams	15.6			0.6
Adel Stony Loams-Timbered Phase	34.7		0.0	34.7
Ashuelot				
Ashuelot Gravelly Silt Loams	20.4	0.7	20.4	0.0
Bainville		- 5		
Bainville Loams	4.3	0.1	1.3	3.0
Beaverton	* 0 *	0 0 020	- o U	9,0
Beaverton Gravelly Loams	13.3	0.5	13.3	0.0
Blaine	10.0	0,0	19.5	0.0
Blaine Stony Loams	116.3	4.2	31.0	85.3
Blaine Stony Loams-Dark Brown Phase	22.6		12.5	0 _
Cheyenne	66 O	0.0	1600	10.1
GRA	9.6	0.4	9.6	0.0
Cheyenne Gravelly Loams Choteau	9.0	0.4	9.6	0.0
Choteau Loams	37.4	1.3	27 /	0 0
Fairfield	37.4	1.3	37.4	0.0
	26.5	1.0	26 5	0 0
Fairfield Gravelly Loams Gerhard	20.5	1.0	26.5	0.0
	7.2	0.3	7 2	0 0
Gerhard Clay Loams	1.2	0.3	7.2	0.0
Joplin John John	22 6	1 1	12.0	10.6
Joplin Loams	32.6			
Joplin Fine Sandy Loams	16.2	0.6		0.0
Joplin Silt Loams	16.7			
Joplin Silty Clay Loams	5.2	0.2	5.2	0.0
Laurel	140.0	F 0	3.40.0	2 2
Laurel Loams	142.2			
Laurel Clay Loams	26.9	1.0	26.9	0.0
Lismas				
Lismas Clay Loams	9.9	0.4	0.0	9.9
Lloyd				
Lloyd Gravelly Loams	22.0	0.8	20.3	1.7
Lowry				
Lowry Gravelly Loams	20.6	0.7	12.9	7.7
Marias				
Marias Clay Loams	31.7	1.2	31.7	0.0
Morton				
Morton Clay Loams	7.0			0.0
Morton Clay Loams-Shallow Phase	7.5	0.3	7.5	0.0
Morton Gravelly Loams	53.1	1.9	53.1	0.0
Morton Gravelly Loams-Dark Phase	4.0	0.1	4.0	0.0
Morton Gravelly Loams-Red Phase	10.1	0.4	10.1	0.0
Morton Gravelly Loams-Shallow Phase	42.1	1.5	42.1	0.0
-				

Morton Sandy Loams	21.2	0.8	21.2	0.0
Morton Sandy Loams-Shallow Phase	8.6	0.3	8.6	0.0
Morton Silt Loams	161.1	5.8	158.6	2.5
Morton Silt Loams-Dark Phase	36.5	1.3	35.0	1.5
Morton Silt Loams-Dark Red Phase	19.0	0.6	19.0	0.0
Morton Silt Loams-Red Phase	53.0	1.9	51.6	1.4
Morton Silty Clay Loams-Shallow Phase	8.3		8.3	
Morton Stony Loams	31.7	1.2	22.8	8.9
Morton Stony Loams-Red Phase	101.3			
Morton Stony Loams-Shallow Phase	19.4	0.7	5.9	13.5
Orman	100	0 . /	J.J	10.0
Orman Clay Loams	19.7	0.7	19.7	0.0
Phillips	1001	0 . /	±201	0,0
Phillips Silt Loams	22.0	0.8	22.0	0.0
	6.2	0.3	6.2	
Phillips Sandy Loams Pierre	0.2	0.5	0.2	0.0
	E4 6	2 0	3.6.2	20 4
Pierre Clay Loams	54.6	2.0	16.2	38.4
Power	2 0	0 0	2 0	0 0
Power Clay Loams	2.0	0.0	2.0	0.0
Scobey				
Scobey Loams	39.2	1.4	33.2	6.0
Scobey Loams-Dark Phase	11.6		11.6	
Scobey Coarse Sandy Loams	16.5		16.5	0.0
Scobey Sandy Loams	30.2		27.6	2.6
Scobey Silt Loams	80.9	2.9	69.7	11.2
Scobey Silt Loams-Dark Phase	11.6	0.4	11.6	0.0
Scobey Clay Loams-Dark Phase	17.7	0.6	17.7	0.0
Scobey Stony Loams	0.6	0.0	0.0	0.6
Teton				
Teton Clay Loams-Dark Red Phase	2.0	0.1	2.0	0.0
Teton Loams	5.7			0.0
Teton Silt Loams-Dark Red Phase	86.8			
Teton Stony Loams		8.6		
Teton Stony Loams-Dark Red Phase	22.7			
Wade	case cost og y	0,0	සාව Co.∂ ම ∦	0 : 0
Wade Silty Clay Loams-Dark Phase	13.7	0,5	13.7	0.0
Winifred	10.7	0,0	100/	0.0
Winifred Clay Loams	4.6	0.2	1.1	3.5
Zortman	4.0	0.2	T . T	5.5
Zortman Loams	104.1	2 0	20 1	75.0
Zortman Loams-Deep Phase		0.1		
Zortman Gravelly Loams		0.2		
Zortman Gravelly Loams-Shallow Phase	8.1	0.3	8.1	0 , 0
Physiographic Features			•	
Badlands		0.0		
Badland Basins		0.0	1.9	
Mountains		25.6		699.0
Rock Outcrops		0.2		
Swamps		0.0		
Source: L. F. Gieseker, Soils of Cascade	County,	Bulletin	No. 337	Montana

Source: L. F. Gieseker, <u>Soils of Cascade County</u>, Bulletin No. 337, Montana State College, Agricultural Experiment Station, Bozeman, Montana, March, 1937.

Water

Although the Great Falls area is located in a semi-arid region with average annual precipitation of 14 inches, water is in plentiful supply. The City, which comprises the major share of Cascade County's population, utilizes the Missouri River for its water supply. Approximately 48 million gallons per day can be handled by the City's filtration plant while the total rated capacity of the pumping station is 102 million gallons per day.

Water has also played an important part in the industrial development of the area. The availability of hydro-electric power from the falls of the Missouri River encouraged the construction of the Black Eagle, Rainbow, Ryan, Morony and Cochrane Dams.

Transportation

Cascade County, with Great Falls as its focal point, is an important rail transportation center. The Great Falls area benefits from its location on the Havre-Butte branch of the Great Northern which traverses the County from northeast to southwest and connects with the Northern Pacific at Helena and Butte. The Sunburst-Shelby and Great Falls branch of the Great Northern, which was originally constructed as a narrow gauge during the 1890's, was later made standard gauge and extended to Billings around 1907. This branch has connections with the Canadian Pacific at Sunburst and with the Burlington at Billings.

The Great Falls area is also served by a branch line of the Chicago, Milwaukee, St. Paul and Pacific Railway which was built around 1912. Today this line hauls only freight.

Other transportation includes four scheduled airlines; Western, Northwest, Frontier and West Coast Airlines; twelve truck lines; and two bus lines.

The Metropolitan Area has good highway access with the rest of the State. U. S. Highway 87 enters the County in the northeast, connecting Great Falls with Fort Benton and Havre, and leaves the County in the southeast, connecting Great Falls with Billings via Lewistown. U. S. Highway 89, the old Yellowstone-Glacier Park Trail, enters the County southeast of Neibart and leaves it in the northwest connecting Great Falls with Glacier National Park. The other major north-south route is U. S. Highway 91 (Interstate 15) which connects Great Falls with the Canadian province of Alberta and then extends southwestward to Helena and Butte.

II

THE ECONOMIC BASE OF CASCADE COUNTY

Employment and Population Growth

Cascade County has exhibited a strong growth rate in employment and population between 1940 and 1960. The County's growth in these two economic indicators was exceeded by the growth in Great Falls. Between 1940 and 1960 Cascade County increased by 75 percent in population and by 60 percent in employment. For the same period, the City of Great Falls had an increase of 85 percent in population and 75 percent in employment. It is interesting to note that this growth rate exceeded that of both the State of Montana and the United States. Montana's growth was 21 and 25 percent in population and employment, respectively, while the United States experienced a 36 percent increase in population and a 43 percent increase in employment.

Table 1

COMPARATIVE POPULATION AND EMPLOYMENT TRENDS - 1940-1960

GREAT FALLS, CASCADE COUNTY, MONTANA AND UNITED STATES

	Grea	t Falls Employ.	Casca Pop.	Employ.	Mo Pop.	ntana Employ.	United Pop.	d States Employ.
1940	30	11	42	15	559	185	131,669	45,070
1950 % Increase	39	15	53	20	591	218	151,326	56,435
1940-1950	31.0	38.1	26.2	31.1	5.6	18.1	14.9	25.2
1960 % Increase	55	19	73	24	675	231	179,323	64,639
1950-1960	41.2	26.6	38.4	22.5	14.2	6.0	18.5	14.5

Population and Employment figures in 000's.

Source: U. S. Department of Commerce, Bureau of the Census, <u>General</u>

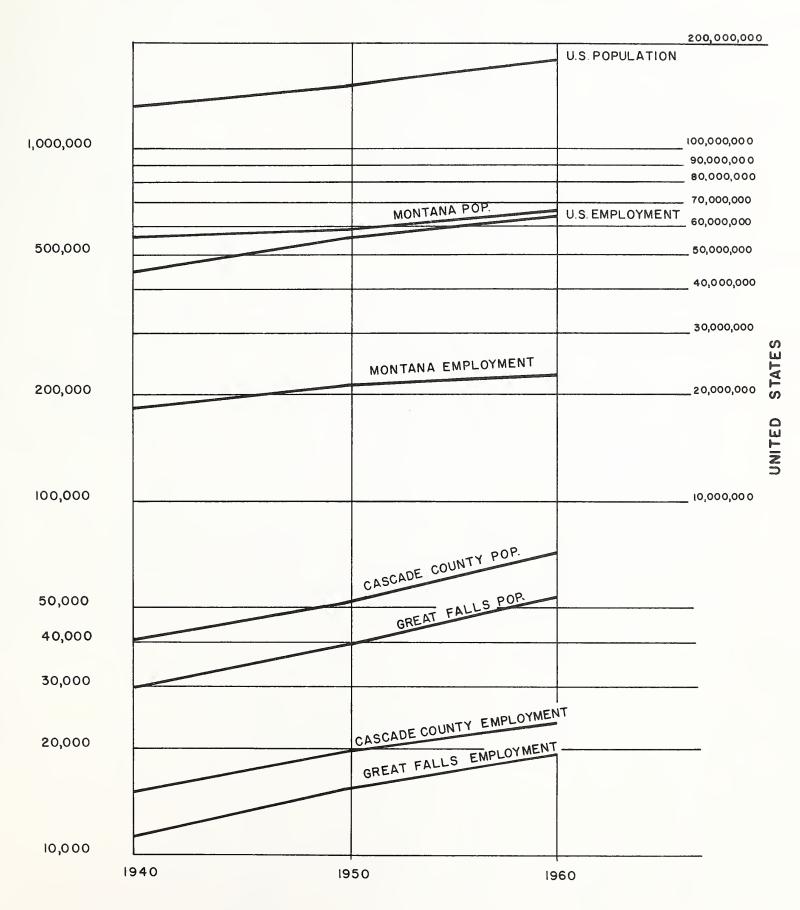
<u>Social and Economic Characteristics</u>, Montana and United States

Summary, 1960.

The growth trends for Great Falls and Cascade County between 1940 and 1950 and between 1950 and 1960 show different characteristics. Between 1940 and 1950 the growth in population was exceeded by the growth in employment in the City and in the County. During the 1950-1960 period this trend was reversed with the growth in population exceeding the growth in employment. This is best explained by two factors. First, national, state and local trends showed that between 1940 and 1950 the labor participation rate (the proportion of the population that is employed) increased while between 1950 and 1960 the labor participation rate decreased. This means that the number of people employed in 1960 were supporting more non-working persons than they were in 1950.

Second, employment as defined in this study corresponds to the Census's term "employed" which includes civilians and excludes those who are unemployed and those who are in the armed forces. Thus back in 1960, approximately 4,100 military personnel were not counted in the employed labor force although they and their dependents were counted in the population.

COMPARATIVE POPULATION 8 EMPLOYMENT TRENDS: 1940-1960 UNITED STATES, MONTANA, CASCADE COUNTY & GREAT FALLS



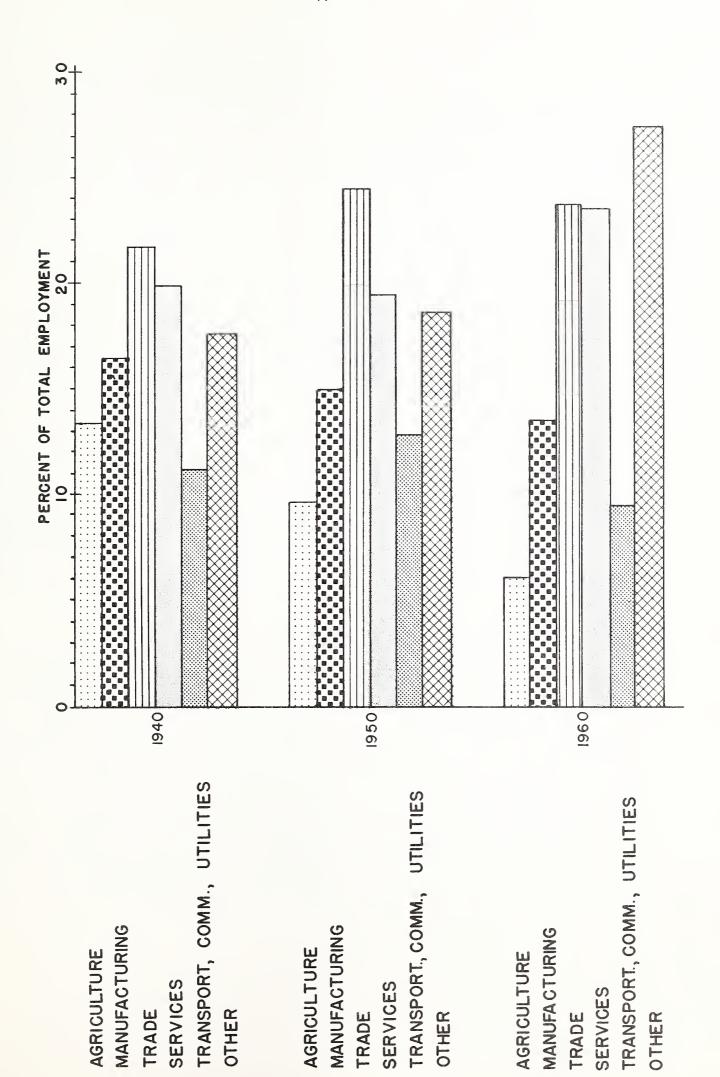
The Labor Force and its Changing Composition

The best way to describe how the Metropolitan Area earns its livelihood is to show employment figures by industrial groups. In terms of employment, the largest single industry is wholesale and retail trade, which employs 5,731, or almost 24 percent of the employed labor force. The second largest industrial sector in terms of employment is services (business and repair services, medical and other health services, educational services, professional and related services). This group employs 5,698 and comprises slightly more than 23 percent of the employed labor force. Manufacturing comes next with 3,260 employees or 13.5 percent of the total, followed by transportation, communications and utilities with 2,296 employees or 9.5 percent of the total.

Since 1940, Cascade County has experienced definite changes in its industrial composition. Agriculture has been the only industrial sector to show both an absolute and a relative decline. Wholesale and retail trade, although increasing in absolute employment from 1940 to 1950 and from 1950 to 1960, declined slightly in relative importance from 1950 to 1960. Employment in services declined in absolute numbers for each period but between 1950 and 1960 increased slightly in relative position. Manufacturing, which increased by almost one-third between 1940 and 1960, actually declined relatively from 16.3 percent of total employment to 13.5 percent.

The fastest growing industrial sectors of employment since 1940 have been construction, with almost a 200 percent increase; public administration, also with practically the same increase; and finance, insurance and real estate, with almost a 120 percent increase. Each one of these industrial sectors has also increased in its relative position of total employment. Table 2 shows each industrial sector and its relative growth between 1940 and 1960 while Figure 2 shows the growth graphically.

PERCENT COMPARISON OF INDUSTRY GROUP FOR CASCADE COUNTY 1940, 1950, 1960



SOURCE: U.S. DEPT. OF COMMERCE, BUREAU OF THE CENSUS, 1940-1960

Table 2

CASCADE COUNTY: INDUST	RY GROUP	OF EMP	LOYED -	1940, 1	.950 & 19	60
Industry Group	1940	% of Total	1950	% of Total	1960	% of Total
Employed Agriculture Forestry & Fisheries Mining Construction Manufacturing Trans., Commun., & Util. Wholesale & Retail Trade Finance, Ins. & Real Est. Services Public Administration Industry Not Reported	15,051 1,995 34 563 697 2,457 1,672 3,284 560 2,973 541 275	100.0 13.3 0.2 3.7 4.6 16.3 11.1 21.8 3.7 19.9 3.6 1.8	19,742 1,918 16 122 1,457 2,935 2,505 4,837 766 3,864 1,042 280	100.0 9.5 0.1 0.6 7.4 14.9 12.7 24.5 3.9 19.6 5.3 1.5	24,184 1,487 21 121 2,078 3,260 2,296 5,731 1,257 5,698 1,601 634	100.0 6.1 0.1 0.5 8.6 13.5 9.5 23.7 5.2 23.6 6.6 2.6

Source: U. S. Department of Commerce, Bureau of the Census, Census of Population, Montana, 1940-1960.

Estimated County Employment for 1964

From trends compiled by the Montana State Employment Service and the U. S. Bureau of Labor Statistics it is estimated that the year-end employment figure for 1964 approximated 26,200, an increase of over 8 percent since 1960. Those industries staying about status quo with 1960 included manufacturing, transportation, communications and utilities, and wholesale and retail trade. Industries showing gains since 1960 included construction, services, finance, insurance and real estate, and public administration. Although the estimates provided by the State Employment Service and the Bureau of Labor Statistics comprised non-agricultural employment only, it is estimated that, based upon past trends, agricultural employment declined since 1960.

Characteristics of the Economy

The Great Falls Metropolitan Area has historically derived its income from three major sources of economic endeavor. It is the major shopping and service center not only for Cascade County but for several counties in its regional trade area; it is a manufacturing center whose products in primary metals and agricultural grains are shipped to various parts of the country; and it has a productive agricultural economy principally comprised of livestock raising and dry-land grain farming.

In recent years military installations such as Malmstrom Air Force Base have assumed greater importance. This is chiefly due to the heavy emphasis placed upon the Minuteman missile complex centered in north-central Montana and administered from Malmstrom Air Force Base.

The economic base of Cascade County can be defined as the sum total of those income opportunities located in the area. These income or employment opportunities are of two types. People residing in the area spend money for goods and services, while other goods and services are exported outside of the local area. Those employed in selling goods and services to the local market are referred to as secondary or service employment, while those engaged in exporting goods and services outside the community are called primary or basic employment.

It is the primary or basic employment that is the principal mover of the economy. Thus the growth or decline of sales and employment in the primary area is largely independent of changes in local income, while the sales and employment in the secondary industries are directly affected by changes in local income. In the final analysis an area will grow in population as more job opportunities are created both by expansion of existing industry and by location of new industry.

From interview and questionnaire data compiled between the last quarter of 1964 and the second quarter of 1965, along with comparisons of the County's labor force by industry group with the State and the United States, it was possible to break down the 1960 labor force into primary and secondary classifications. Following is a table showing 1960 primary or basic employment.

Table 3

BASIC EMPLOYMENT IN CASCADE COUNTY FO	R CENSUS YEAR 1960
	No. of Basic
Industry	Employees
Agriculture	1,487
Manufacturing	2,174
Transportation & Utilities	917
Wholesale & Retail Trade	1,747
Services	850
Public Administration	500
Sub-Total of Civilian Basic Employment	7,675
Armed Forces Personnel	4,187
Total Basic Employment	11,862

Taking the combined total of the employed civilian labor force and armed forces personnel - 28,371 - and subtracting those employed by basic industry gives us a total of 16,509 employed in the secondary or service industries. Thus every person engaged in producing goods and services for export out of the County (this would include Malmstrom AFB) generates 1.4 additional jobs in local employment.

Personal Income

Personal income is believed to be the most accurate measure of economic activity for a state or region. It is composed of the following factors: wage and salary disbursements; other labor income, proprietors' income including farm and non-farm; property income; and transfer payments such as old age survivor's insurance benefits, state unemployment benefits and veteran's benefits. Subtracted from this total are personal contributions for social insurance.

Since personal income statistics are only available for States (as the smallest geographical unit) an attempt was made to derive personal income in Cascade County from estimates for the State of Montana. The method employed consisted of taking the percentage of employment in each major category and multiplying it by the amount of personal income listed for that particular category under wages and salary disbursements. Farm proprietors' income was based upon the total amount of Cascade County

farm receipts as a percentage of the State's. Other proprietor's income, property income, and transfer payments were based upon the percentage of population that Cascade County has of the State total.

While this method is somewhat crude, it is felt that it at least puts some magnitude of dollars on the overall Cascade County economy. Additionally, it also helps to pinpoint some of the more important facets of the economy such as the military, trade, and manufacturing. In view of its limitations, however, no attempt at analysis will be made.

Table 4

PERSONAL INCOME IN CASCADE COUNTY, 1960-1963

	Amount	in Mill:	ions of	Dollars
Wages & Salary Disbursements	1960	1961	1962	1963
Farms	1.2	1.1	1.1	1.1
Mining	0.5	0.7	0.7	0.8
Contract Construction	8.3	8.8	11.7	11.1
Manufacturing	14.6	14.7	16.1	17.0
Wholesale & Retail Trade	19.8	20.3	20.7	21.5
Finance, Insurance & Real Estate	4.5	4.7	4.7	4.8
Transportation, Comm. & Utilities	15.0	14.7	15.0	15.1
Services	4.6	4.9	5.4	5.7
Government	41.2	45.2	48.6	55.5
Federal, State & Local (Civilian)	20.7	22.1	22.9	25.1
Federal (Military)	20.5	23.1	25.7	30.4
Other Labor Income	3.5	3.7	4.0	4.1
Proprietor's Income	19.0	17.0	22.6	20.5
Farm	5.0	2.9	8.0	6.0
Non-Farm	14.0	14.1	14.6	14.5
Property Income	19.7	20.5	20.1	21.4
Transfer Payments	12.2	13.3	13.3	13.7
	164.1	169.6	184.0	192.3
Less: Personal Contributions for				
Social Insurance	3.4	3.6	3.7	4.1
Total	160.7	166.0	180.3	188.2

Source: U. S. Department of Commerce, Office of Business Economics, <u>Survey of Current Business</u>, August, 1962 & 1964.

III

MAJOR COMPONENTS OF THE ECONOMY

Retail Trade

As mentioned previously, Cascade County, and Great Falls in particular, is the major trading center for several counties in north-central Montana. Generally, Great Falls has exhibited healthy growth in retail sales between the two Census of Business years of 1958 and 1963. Overall sales in Great Falls between 1958 and 1963 increased by 21 percent as compared to an 18 percent increase for the County. Other areas where Great Falls' retail trade performance indicated good growth were in the food group which had a 31 percent increase, automotive sales with a 53 percent increase, gasoline service stations which were up 6 percent, eating and drinking places which were up 14 percent, and non-store retailers which recorded the highest gain - 61 percent.

Other retail categories that showed gains in the County (data in certain categories for the City was withheld by the Census and only reported in the County - an increase or decrease in sales for the County was equated with an increase or decrease in sales for the City since Great Falls is the major trading center in Cascade County) were general merchandise which was up 22 percent, apparel and accessories which had a 15 percent increase, furniture and home furnishings which had a 5 percent increase, and drug and proprietary stores which were up 34 percent.

Retail categories that experienced decreased sales included the lumber, building material, hardware and farm equipment group which decreased 18 and 15 percent in the County and Great Falls respectively. Other retail stores, which includes liquor stores, sporting goods, jewelry, books and stationery, and farm and garden supply stores had a 19 percent decrease in the County and only a 1 percent increase in the City.

When compared to the growth experienced by the State as a whole, both Great Falls and Cascade County compare very well. Thus the City, with an overall sales increase of 21 percent, ranked well above the overall 12 percent increase of the State, as did the 18 percent increase in the County. Other retail categories where Cascade County and Great Falls ranked above the State included general merchandise stores, food stores, automotive dealers, apparel and accessory stores, eating and drinking places, and drug and proprietary stores. On the other hand, the State outranked the City and County in the non-store retailers category, gasoline service stations, and furniture, home furnishings and equipment stores. It also recorded a much lower decrease in lumber, building materials, hardware and farm equipment dealers, and in the other retail store category.

Table 1

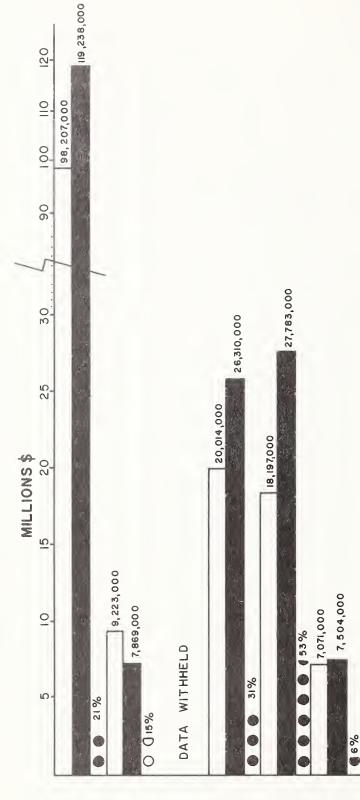
RETAIL TRADE AREA STATISTICS

		Cascade		County			G	Great Falls	L1s	
	7	9 5 8	1 1	963	% Inc.	1 9	5 8	$I \leftarrow I$	6 3	% Inc.
Industry	Estab.	Sales	Estab.	Sales	or Dec.	Estab.	Sales	Estab.	Sales	or Dec.
Retail Trade	717	\$107,308	651	\$126,899	18%	591	\$98,207	531	\$19,238	21%
Lumber, Bldg. Mat., Hdwre & Farm Equip.	94	10,300	30	968'8	-18%	37	9,223	24	7,869	-15%
General Merchandise	21	13,551	23	16,523	22%	20	*(Q)	19	15,926	! !
Food Stores	116	21,447	94	27,625	767	86	20,014	79	26,310	31%
Automotive Dealers	40	19,495	40	28,159	44%	32	18,197	35	27,783	53%
Gas. Serv. Stations	80	7,635	86	8,356	%6	99	7,071	82	7,504	%9
Apparel & Access.	41	5,642	39	6,489	15%	40	(D)	37	(D)	ĝ B
Furn., Home Furnish- ings & Equipment	4 2	6,473	33	6,823	2%	41	(D)	32	(D)	
Eating, Drinking Places	192	10,350	162	11,806	14%	138	8,259	115	168'6	14%
Drug & Proprietary	18	3,360	18	4,518	34%	17	(D)	15	(D)	E E
Other Retail	94	8,323	77	6,737	-19%	79	5,972	09	6,026	1%
Non-Store Retailers	27	804	37	1,467	82%	23	759	е В	1,223	61%

* (D) figures withheld by Census.

U. S. Department of Commerce, Census of Business, Retail Trade, Montana, 1958 and 1963. Source:

RETAIL SALES & PERCENTAGE CHANGE 1958-1963: GREAT FALLS



LUMBER, BUILDING MATERIAL, HARDWARE, FARM EQUIP.

RETAIL TRADE TOTAL

GENERAL MERCHANDISE

FOOD STORES

AUTOMOTIVE DEALERS

GASOLINE SERV. STATIONS

APPAREL, ACCESSORY STORES

DATA WITHHELD

FURNITURE, HOME FURNISHINGS & EQUIPMENT STORES

DATA WITHHELD

EATING, DRINKING PLACES

8,259,000

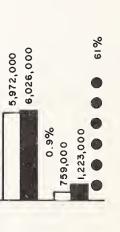
DRUG, PROPRIETARY STORES

DATA WITHHELD

% + I 9 %

OTHER RETAIL STORES

NON-STORE RETAILER



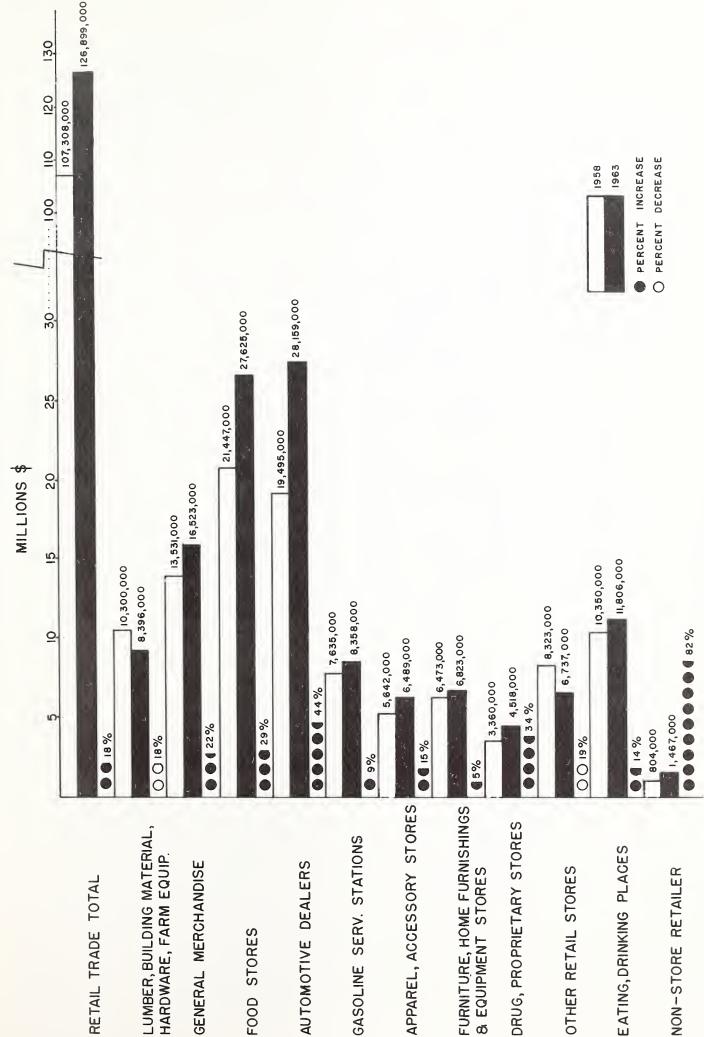
SOURCE: U.S. DEPT. OF COMMERCE, CENSUS OF BUSINESS, RETAIL TRADE, MONTANA, 1958 8 1963

O PERCENT INCREASE
O PERCENT DECREASE
1958



RETAIL TRADE TOTAL

FOOD STORES



SOURCE: U.S. DEPT. OF COMMERCE, CENSUS OF BUSINESS, RETAIL TRADE, MONTANA, 1958 8 1963

NON-STORE RETAILER

OTHER RETAIL STORES

Per Capita Retail Sales

Although Great Falls increased its overall sales by 21 percent, per capita sales increased by only 5 percent. Cascade County's overall sales increase of 18 percent was matched by only a 1 percent increase in per capita sales.

There were several retail trade categories where per capita sales decreased although an increase was reported in overall sales. This included gasoline service stations which were down 7 percent in the County and 8 percent in the City; apparel and accessory stores which were down 2.4 percent in the County; furniture and home furnishing stores which were down 10.5 percent in the County; eating and drinking places which were down 3.3 percent in the County and 1 percent in the City; and the other retail category which declined 31 percent in the County and 13 percent in the City.

This means that retail sales have not grown as fast as population in either the County or Great Falls. At first it was thought that the reason for this was because the City was losing out on sales to other counties in the trade area. However, a check between 1958 and 1963 in the counties comprising the retail trading area of Great Falls (see later section for this explanation) showed that Great Falls actually increased the percentage of its sales within the trade area from 40.1 percent in 1958 to 46.8 percent in 1963.

Table 2

PER CAPITA RETAIL SALES & PERCENTAGE CHANGE:
CASCADE COUNTY & GREAT FALLS, 1958-1963

		County r Capita 1963	Great I Sales Per 1958		Percentac Cascade County	
Total Retail Trade Lumber, Bldg. Mat.,	\$1,578	\$1,586	\$1,888	\$1,987	0.5	5.2
H'dwre & Farm Eq.	151	105	177	131	-30.5	-26.0
General Merchandise	199	207	(D) *	265	4.0	
Food Stores	315	345	384	438	9.5	14.1
Automotive Dealers	287	352	350	463	22.6	32.3
Gas. Serv. Stations	112	104	136	125	-7.1	-8.1
Apparel & Access.	83	81	(D)	(D)	-2.4	
Furn., Home Furnish-						
ings & Equipment	95	85	(D)	(D)	-10.5	
Eating & Drinking						
Places	152	147	158	157	-3.3	6
Drug & Proprietary	49	56	(D)	(D)	14.3	County County
Other Retail	122	84	115	100	-31.2	-13.0
Non-Store Retailers	12	18	15	20	50.0	33.3

* (D) figures withheld by Census

Source: U. S. Department of Commerce, Census of Business, Retail Trade, Montana, 1958 and 1963.

Analysis of interview and questionnaire data conducted for delineation of trade areas revealed that Great Falls primary and secondary trade areas for retailing extend over a ten-county area (excluding Cascade County) including Pondera, Lewis and Clark, Glacier, Choteau, Teton, Hill, Liberty, Toole, Meagher, and Judith Basin. This is considerably larger than the eightcounty trade area delineated by the Upper Midwest Economic Study in their publication, Trade Centers and Trade Areas of the Upper Midwest, September, 1963. The trade area population accounted for in the upper midwest study is somewhat smaller than that accounted for by the recent trade area study - 120,000 compared to 170,000. All of this population does not, of course, come to Great Falls to do their shopping. Outside purchases in Great Falls are usually limited to comparison shopping in such items as apparel, furniture, home equipment, appliances and farm equipment. This is not done on a regular basis as much as it is on

an intermittent basis where it can be coupled with a business or social trip.

Great Falls is the dominant shopping center for a large trade area. It contains large department stores and a variety of specialty shops, thereby offering a much larger selection of goods than is possible in a smaller community. The future of the Central Business District is going to depend upon its ability to maintain modern merchandising practices, attractive physical surroundings, good access and adequate parking. The compactness and physical attractiveness of the Central Business District is an essential factor in Great Falls' role as a trading center since one can buy almost anything within a radius of several blocks.

Although no retail sales figures were published by the Census for the Central Business District, it is quite probable that from a relative position the Central Business District has been losing ground. This is probably true for two reasons: first, the growth of shopping centers such as Holiday Village and Northside have siphoned off sales from the Central Business District, and second, the "skid row" strip along Central Avenue and the vacant deteriorating stores have made shopping there less attractive.

The Census showed a decrease in the number of sales establishments in Great Falls between 1958 and 1963. In 1958 the City contained 591 establishments and in 1963 there were 561. Only three major categories showed an increase - automotive dealers which went from 32 to 35 establishments from 1958 to 1963, gasoline service stations which increased from 66 to 82, and non-store retailers which increased from 23 to 33. Evidently, as retail competition gets stronger it will force the more marginal establishments out of business.

Perhaps the most interesting aspect of the gain in sales and establishments was in the non-store retailer category which is essentially characterized by mail-order business. It appears that this category is making up for the decline in establishments with Great Falls increasing its sales in the mail-order and catalog business. It is felt that since this business is usually an "out of town" type of sale, Great Falls has been increasing its out-lying trade area penetration.

It is rather interesting to note what effects the 1964 flood had on retail sales in the County. Sales figures from Sales Management Magazine, which produces retail sales estimates for each county and metropolitan area in the United States, showed an overall drop in total sales of \$10,493,000 or 7.4 percent between 1963 and 1964. Sales categories showing declines were eating and drinking places, down 10.1 percent; general merchandise stores, down 4.9 percent; apparel, down 1.2 percent; furniture and household appliances, down 3.9 percent; gasoline service stations, down 15.8 percent; and, lumber, building material and hardware dealers, down 35.7 percent. The only categories showing increased sales were food, automotive, and drugs.

Table 3

RETAIL SALES IN CASCADE COUNTY, 1960-1964

		Amount o	of Sales	(000's)	
Type	1960	1961	1962	1963	1964
Total Sales	\$116,770	\$120,395	\$133,237	\$141,072	\$130,579
Food	23,030	24,704	26,392	27,418	28,133
Eating & Drinking	11,188	11,834	N.A.	13,554	12,188
General Merchandise	15,639	16,851	18,920	20,230	19,243
Apparel	6,011	6,247	6,727	6,850	6,769
Furn. & Household Appl.	6,601	6,730	7,164	7,730	7,427
Automotive	22,850	21,916	26,147	23,804	28,757
Gasoline Service Stations	8,456	8,953	9,574	10,043	8,458
Drugs	3,728	3,962	4,234	4,351	4,600
Lumber, Bldg. Material &					
Hardware	11,157	11,046	12,184	12,751	8,203

Source: Copyright 1961, 1962, 1963, 1964, 1965, <u>Sales Management</u>
Survey of Buying Power; further reproduction is forbidden.

Selected Services

Selected service sales in both Great Falls and Cascade County have exhibited a much stronger growth trend than retail sales. The overall percentage growth in sales for the County was 32 percent while Great Falls showed a 26 percent increase. Percentage increases in per capita sales were also stronger for selected service sales, increasing 11.7 and 8.5 percent for the County and the City respectively. The number of establishments grew for the County as a whole, having increased from 352 in 1958 to 412 in 1963, as did the City which increased from 304 to 362 establishments.

All categories of selected service sales showed increases with the exception of motion pictures which decreased 48 percent. The only other category to show a decrease in per capita sales, absolute and percentage-wise, was hotel, motel and tourist courts. Even though the category showed an overall 11 percent increase, per capita sales declined from \$54 to \$52 - a 3.7 percent decrease.

In comparison with the State, either Great Falls or Cascade County outranked the State in all categories except hotels, motels and tourist courts, and motion pictures. The last category actually showed a 21 percent decrease for the State while the County was down 48 percent. One other area where Great Falls did not exhibit as strong a growth rate as the State was in auto repair, auto services and garages. The State's increase totaled 31 percent with Great Falls having registered a 22 percent increase. The County, however, grew 53 percent in this category.

Table 4

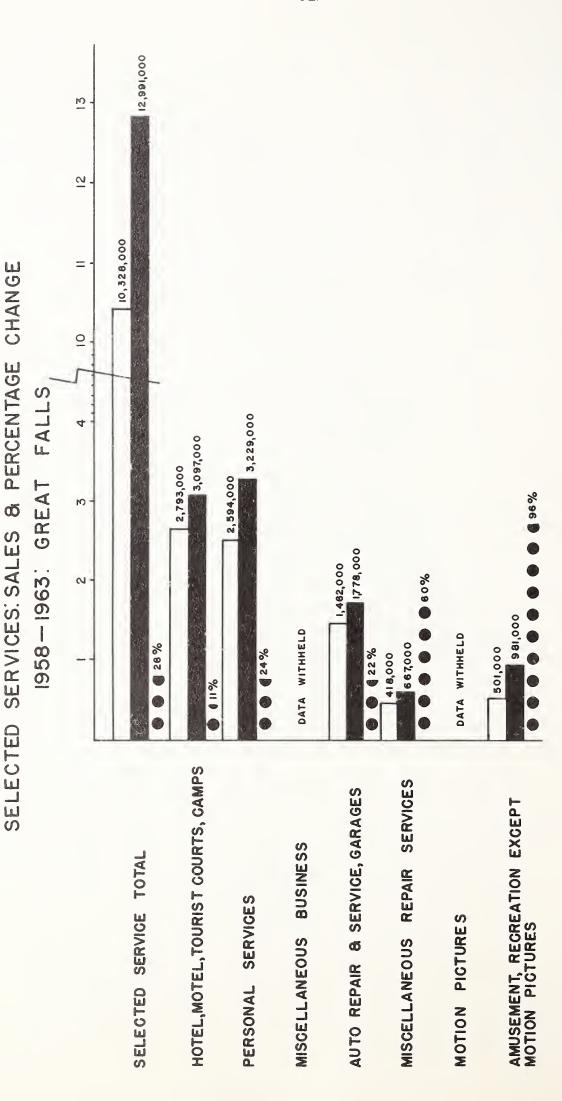
SELECTED SERVICES

	nc. Dec.	ω	0	2		9	9		œ
	% Inc. or Dec	25.	11.	24.	§ §	21.	59.	e con	95.
	63 Sales	\$12,991	3,097	3,229	2,658	1,778	299	581	981
at Falls	1 9 Estab.	362	65	146	28	30	45	4	14
Great	5 8 Sales	\$10,328	2,793	2,594	(D)	1,462	418	(D)	501
	1 9 Estab.	304	62	130	29	ы Б	25	10	13
	% Inc. or Dec.	31.6	:	24.8	85.8	53.0	78.0	-48.3	1
ounty	963 Sales	\$14,570	*(D)	3,450	2,719	2,432	794	587	(D)
Cascade Co	1 Estab.	412	73	161	63	41	49	9	19
Cas	9 5 8 Sales	\$11,074	2,904	2,764	1,463	1,589	446	1,135	773
	Estab.	352	t 77	141	30	41	33	디	19
	Industry	Selected Service Total	Hotel, Motel, Tourist Courts, Camps	Personal Service	Misc. Business Serv.	Auto Repair, Auto Serv. & Garages	Misc. Repair Serv.	Motion Pictures	Amusement, Recrea. Serv., Except Motion Pictures

(D) Figures withheld by Census.

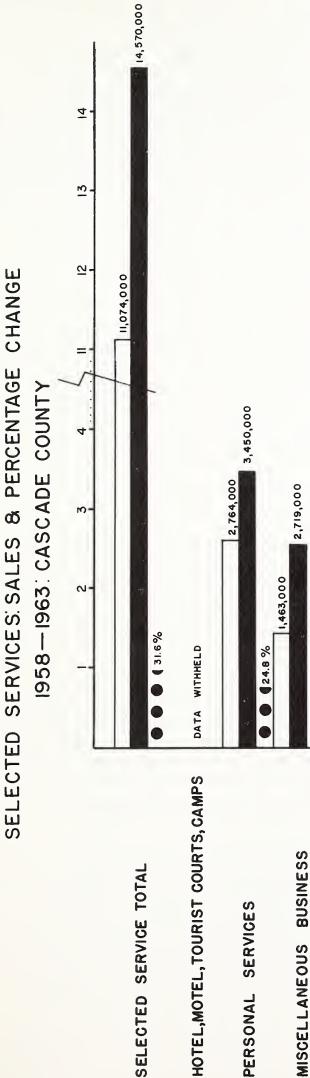
and U. S. Department of Commerce, Census of Business, <u>Selected Services</u>, Montana, 1958 1963. Source:

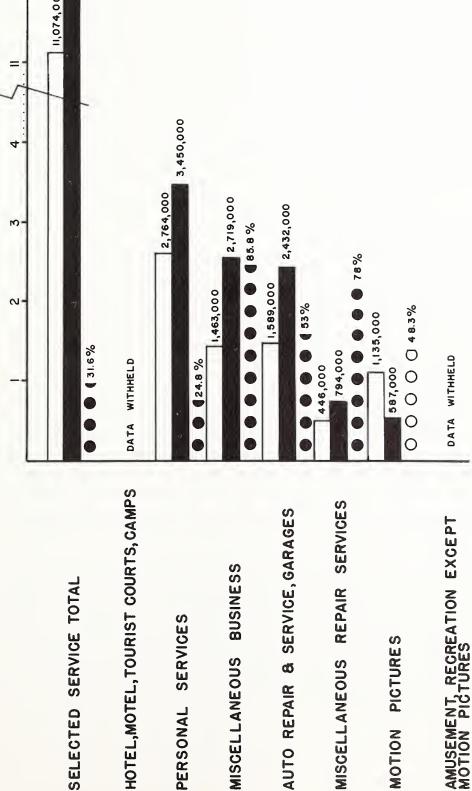
Sales figures in 000's.



SOURCE: U.S. DEPT. OF COMMERCE, CENSUS OF BUSINESS, SELECTED SERVICES, MONTANA, 1958 & 1959







SOURCE: U.S. DEPT. OF COMMERCE, CENSUS OF BUSINESS, SELECTED SERVICES, MONTANA, 1958 & 1959

MOTION PICTURES

MISCELLANEOUS



PER CAPITA SELECTED SERVICES & PERCENTAGE CHANGE:
CASCADE COUNTY & GREAT FALLS, 1958-1963

	Cascade ales Per 1958		Great F Sales Per 1958		Percentage Cascade County	Change Great Falls
Total Selected Serv. Hotel, Motel, Tourist	\$163	\$182	\$199	\$216	11.7	8.5
Courts & Camps	43	(D) *	54	52		-3.7
Personal Service	41	43	50	54	4.9	8.0
Misc. Business Serv.	22	34	(D)	44	54.5	900 KD9
Auto Repair, Auto						
Serv. & Garages	23	30	28	30	30.4	7.1
Misc. Repair Services	7	9	8	11	28.6	37.5
Motion Pictures	17	7	(D)	10	-58.8	ens ens
Amusement, Recreation Serv., Except Motion Pictures		(D)	10	16		60.0
ETCCATCO	11	(1)	ΤO	10		00.0
* (D) figures withhel	d by Cen	sus.				

Source: U. S. Department of Commerce, Census of Business, <u>Selected</u>
<u>Services</u>, Montana, 1958 and 1963.

Wholesale Trade

Great Falls experienced a phenomenal growth in wholesaling between 1958 and 1963. The City recorded an increase of 71 percent during this period compared to 58 percent for the County and only 10.7 percent for the State. It is rather difficult to pinpoint the wholesaling categories in the City that helped to achieve this great growth since the Census supplied data for Cascade County only.

The most active categories in terms of percentage increases included groceries and related products with a 111 percent increase, farm products with a 152 percent increase, alcoholic beverages with a 33 percent increase and miscellaneous products with a 75 percent increase. Those categories registering decreases include electrical goods with a 27 percent decrease, and lumber and construction materials with a 28 percent decrease.

Great Falls' sales in wholesaling also advanced from the standpoint of its relative position in the State. In 1958 wholesale trade accounted for 10.2 percent of the State's total while in 1963 it increased to 15.7 percent. On the other hand, Billings, Great Falls' chief competitor, experienced a decline from 24.5 percent of total wholesale sales in Montana in 1958 to 19.6 percent in 1963.

Trade area information indicated that Great Falls services a combined primary and secondary trade area of 22 counties (including Cascade County) that did a volume of \$506,551,000 in 1963 and \$431,554,000 in 1958 - a 17.4 percent increase. These 22 counties had a population of 284,395 in 1960. If Cascade County's sales are deducted for both census years the increase amounts to only 6.7 percent. There can be no doubt that Great Falls' wholesalers increased their trade area penetration as evidenced by the fact that the City increased its share of sales from 18.0 percent of the trade area in 1958 to 26.2 percent in 1963. The increase for the County was approximately of the same magnitude going from 20.9 percent of total trade area sales in 1958 to 28.1 percent in 1963.

WHOLESALE TRADE & PERCENTAGE CHANGE
1958—1963: CASCADE COUNTY

150 90,267,000 WHOLESALE TRADE TOTAL 142,303,000 7,722,000 8,399,000 MOTOR VEHICLES, AUTO. EQUIP. 9% DATA WITHHELD DRUG, CHEMICALS, ETC. DATA WITHHELD DRY GOODS, APPAREL /11,785,000 GROCERIES & RELATED PRODUCTS 24,815,000 51,532,000 FARM PRODUCT, RAW MATERIALS 1,816,000 ELECTRICAL GOODS 0 0 27% 3,228,000 3,176,000 HDWRE., PLMBG., HTG., EQUIP. 1.6% 11.515,000 11,742,000 MACHINERY, EQUIP SUPPLIES 12% 6,781,000 6,811,000 PETROLEUM BULK STATIONS 0.4% SCRAP, WASTE MATERIAL DATA WITHHELD 1,510,000 2,002,000 BEER, WINE, ALCOHOLIC BEV. 2,132,000 2,513,000 PAPER, PAPER PRODUCTS 18 % DATA WITHHELD FURNITURE, HOME FURNISHINGS 7,270,000 LUMBER, CONSTRUCTION MATERIALS OTHER MISCELLANEOUS PRODUCTS

SOURCE: U.S. DEPT. OF COMMERCE, CENSUS OF BUSINESS, WHOLESALE TRADE, MONTANA, 1958-1963

PERCENT INCREASE
PERCENT DECREASE



Table 6

GROWTH IN WHOLESALE SALES, CASCADE COUNTY, 1958-1963

Percent

		1958		1963	Increase
Type	Estab.	Sales (000's)	Estab.	Sales (000's)	1958-1963
Wholesale Trade	169	\$90,267	160	\$142,303	57.6
Motor Vehicles, Auto Equipment	19	7,722	20	8,399	8
Drugs, Chemicals, Allied Prod.	4,	* (Q)	9	3,995	1
Dry Goods, Apparel	7	(D)	7	(D)	1
Groceries & Related Products	21	11,785	19	24,815	110.6
Farm Products - Raw Materials	23	20,449	20	51,532	152.0
Electrical Goods	10	2,504	7	1,816	-27.5
Hardware, Plumbing, Heating					
Equipment Supplies	7	, 22	Ŋ	3,176	-I.6
Machinery, Equipment, Supplies	23	11,515	28	11,742	2.0
Metals, Minerals, Ex. Petroleum					
Products and Scrap	1	(D)	7	(D)	9
Petroleum Bulk Sta., Terminals	20	6,781	18	6,811	0.4
Scrap, Waste Material	9	1,795	7	(D)	80
Tobacco, Tobacco Products	Н	(D)	7	(D)	CHARD SECURI
Beer, Wine, Dist. Alcoholic Prod.	9	1,510	m	2,002	32.6
Paper, Paper Prod., Ex. Wallpaper	IJ	2,132	Ŋ	2,513	17.9
Furniture, Home Furnishings	Ŋ	2,217	7	(D)	
Lumber, Construction Materials	7	7,270	0	5,218	-28.2
Other Misc. Products	10	5,492	10	9,621	75.2

^{* (}D) figures withheld by Census.

U. S. Department of Commerce, Bureau of the Census, Census of Business, Wholesale Trade, Montana, 1958 and 1963. Source:

Manufacturing

Although the Metropolitan Area is not a large and important manufacturing center in relation to other metropolitan areas in the country, its manufacturing activity plays an important role in the economy. In terms of rank importance, the primary metals industry, headed by The Anaconda Company, is the number one manufacturer in terms of both employees and payroll. Second in importance in manufacturing is the food and kindred products group, followed by the printing and publishing group. Together these three groups comprised 84.5 percent of total manufacturing employment in 1960. Of the 3,260 manufacturing employees, primary and fabricated metals accounted for 1,370 or 42 percent, food and kindred products accounted for 809 or 24.8 percent, and printing and publishing accounted for 576 or 17.7 percent.

The trend in manufacturing employment in the County since 1940 has been upward in absolute numbers but has declined in relative terms. In 1940 there were 2,457 employees in manufacturing, or 16.3 percent out of a total employed labor force of 15,051. In 1950 employment in manufacturing had risen to 2,935 but dropped to 14.9 percent of the employed labor force. Manufacturing employment in 1960 increased to 3,260 with a further drop to 13.5 percent of the employed labor force.

The main reason for the relative decline in manufacturing employment can be attributed to a decline in employment in primary metals along with increased efficiency in production techniques. Primary metals was the only group to show a declining employment trend since 1940. From 1,548 employees in 1940, employment rose to 1,837 in 1950 and then dropped to 1,370 in 1960. Primary metals' relative position in the labor force dropped from 10.3 percent of total employment in 1940, to 9.3 percent in 1950 and then to 5.7 percent in 1960.

Food and kindred products employment and printing and publishing employment have both doubled since 1940 although their relative employment positions have only increased slightly. From 407 employees, or 2.7 percent of total employment in 1940, food and kindred products employment rose to 520 in 1950 and to 809 in 1960, or 3.3 percent of total employment. Printing and publishing accounted for 238 employees in 1940 or 1.6 percent of total employment. Employment rose slightly in 1950 to 297 with a very slight decline to 1.5 percent of total employment and then increased to 576 or 2.4 percent of total employment in 1960.

The latest Census of Manufactures (1963) listed 61 manufacturing establishments in the County of which only 25 contained 20 or more employees. Most of the manufacturing firms are therefore small operations. The last detailed breakdown from the 1958 Census showed 55 manufacturing establishments of which 34 were in the 1-19 employees class, 11 in the 20-49 class, 4 in the 50-99 class, 4 in the 100-249 class, and one each in the 250-499 and 500 or over classes.

The Census showed a fairly rapid gain in manufacturing activities between 1954 and 1958 with a slacking off between 1958 The growth in manufacturing employment between 1954 and 1958 was greatly exceeded by value added and by payroll growth. Growth in employment between 1958 and 1963 was more in line with value added and value added per worker. The Census also revealed that non-production line workers engaged in manufacturing are growing faster than production line employees which means that greater efficiency is being achieved by Cascade County manufacturers. It also helps explain the fairly high increases in manufacturing payroll since non-production workers are more highly paid than are production workers. Thus in 1954 non-production workers averaged \$4,929, in 1958 the average rose to \$5,096 and in 1963 it reached \$6,744. The gap between production and non-production payroll declined from \$1,406 in 1954 to \$507 in 1958 but then increased more than three-fold to \$1,725 in 1963. Manufacturing income should therefore grow rather fast if this trend continues.

Table 7

	CASC	ADE COU	NTY MANUF	ACTURIN	G CHARACT	ERISTICS:	<u> 1954-1963</u>	
		All Em	ployees	Prod.	Workers	Value	Avg. Payr	oll Per
			Payroll		Wages	Added		Prod.
Year	Est's	No.	(000's)	No.	(000°s)	(000°s)	Employee	Worker
								10,110,000,000
1954	56	2,559	\$ 9,914	1,924	\$ 6 ,7 78	\$27,382	\$3,874	\$3,523
1958	55	2,786	13,169	2,029	9,311	39,416	4,727	4,589
1963	61	2,884	15,888	2,065	10,365	42,583	5,509	5,019

PERCENTAGE INCREASE IN EMPLOYEES, PAYROLL & VALUE ADDED

<u>Year</u>	<u>Employees</u>	<u>Payroll</u>	Value Added	
1954-1958	8.9	32.8	43.9	
1958-1963	3.5	20.6	8.0	

Source: U. S. Department of Commerce, Bureau of the Census, Census of Manufactures, Montana, 1954, 1958 and 1963.

Agriculture

Cascade County's agriculture has followed the State and national trends toward fewer and larger farms. This trend has gone on since the 1930's and resulted partly from the early unsatisfactory homestead pattern. In recent years, greater mechanization and commercialization of agriculture helped to continue this trend as increased units of land were necessary for the economic utilization of costly farm machinery. The actual decline in the number of farms did not commence until the middle and late 1930's when the number of farms dropped from 1,478 in 1934-1935 to 1,401 in 1939-1940. The 1959 Census of Agriculture reported 1,033 farms in Cascade County compared to a peak of 1,478 farms in 1934. This trend relationship is portrayed in the following graph showing the decline in numbers of farms.

As farms have been decreasing in number, farms in the 1,000 acre and over category have been increasing most rapidly. Farms in all other size classes have been declining with the exception of the 50-99 acre category which has shown a slight increase since 1950. It is apparent therefore that large farm consolidations are taking place by the absorption of the smaller farms. This changing relationship in farm size is portrayed by the accompanying graph entitled, Relative Growth in Size of Cascade County Farms.

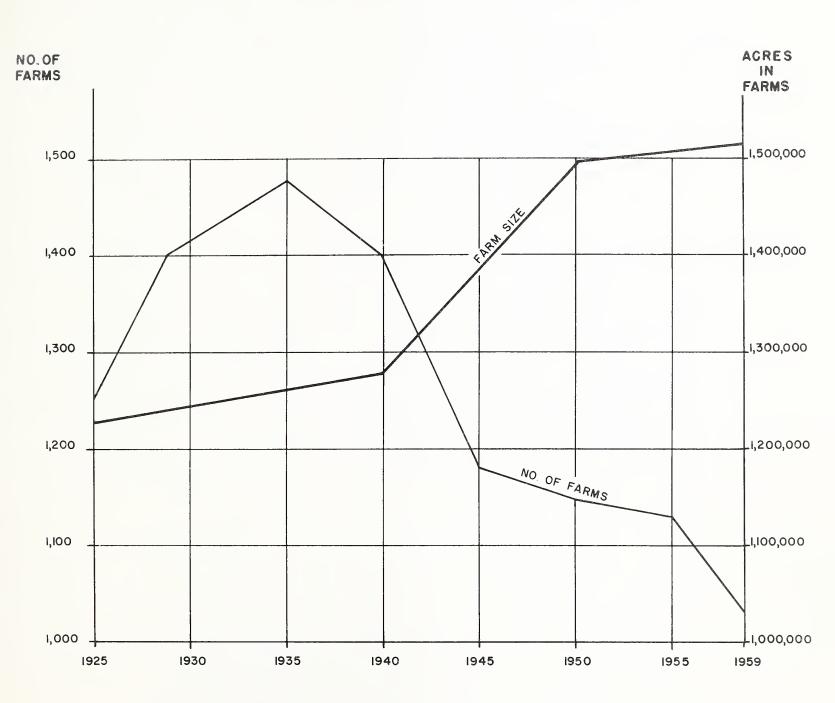
Agricultural Production

In Cascade County wheat is the leading cash crop followed in importance by hay, barley, oats and potatoes. The County has been a fairly stable wheat producer, particularly in winter wheat, although adverse weather and moisture conditions have often caused declines in yield. Agricultural records were checked back to 1939 and the average yield during this 25-year period was 3,330,000 bushels per year.

In terms of cash receipts, crops, which is led by wheat, have always been the main source of income. From 1952 to 1963 there were only two years (1960 and 1961) where crops lost their lead as the principal cash income producer.

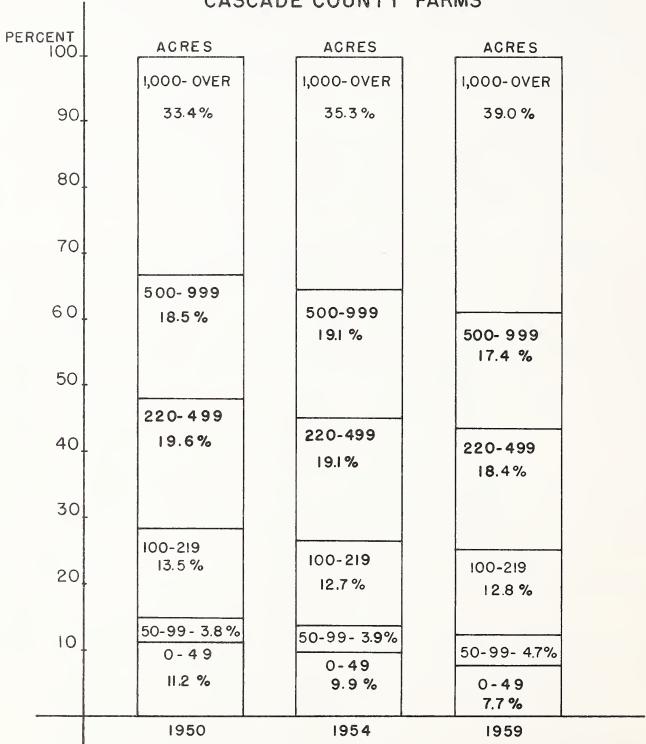
In recent years livestock has assumed greater importance in the agricultural economy. Agricultural marketings in livestock reached \$7.1 million in 1958 and since then have been

RELATIONSHIP BETWEEN NO. OF FARMS & FARM SIZE IN CASCADE COUNTY



SOURCE: U.S. DEPT. OF COMMERCE, BUREAU OF THE CENSUS, CENSUS OF AGRICULTURE, (VARIOUS YEARS)

RELATIVE GROWTH IN SIZE OF CASCADE COUNTY FARMS

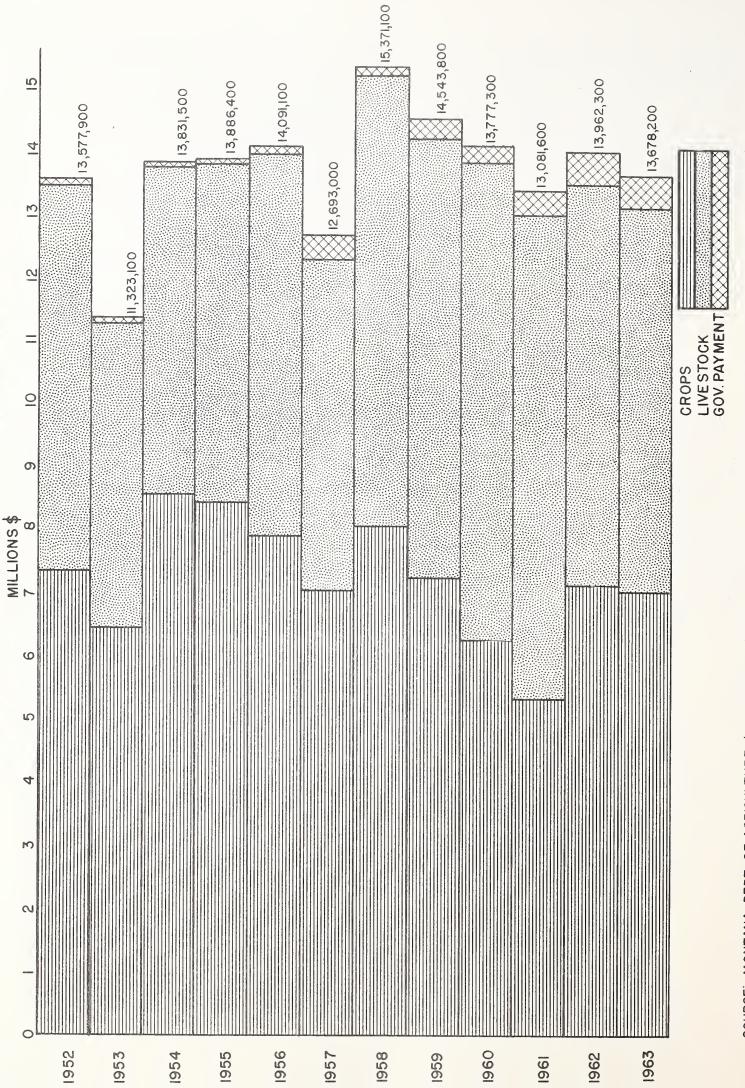


SOURCE: U.S. DEPT. OF COMMERCE, CENSUS OF AGRICULTURE, MONTANA, 1950, 1954, 1959.

close to or above the \$7 million level. The number of cattle on Cascade County farms has grown steadily over the years although there have been many dips and rises due to cattle prices, weather and range conditions. In 1950, Cascade County had 52,100 cattle on its farms whereas in 1964 the total reached 79,300. The 15-year average during this span of time was 65,320. Cattle prices, feed prices, and grazing conditions have always had an influence upon the number of cattle on farms and ranches. Generally speaking, drought conditions will usually force liquidation of livestock while good grazing conditions will encourage ranchers to restock. In recent years drought conditions, as in 1961, caused a decline in livestock. This was followed by a sharp increase in livestock in 1962 and 1963 when conditions improved (see Graph).

Irrigation Patterns

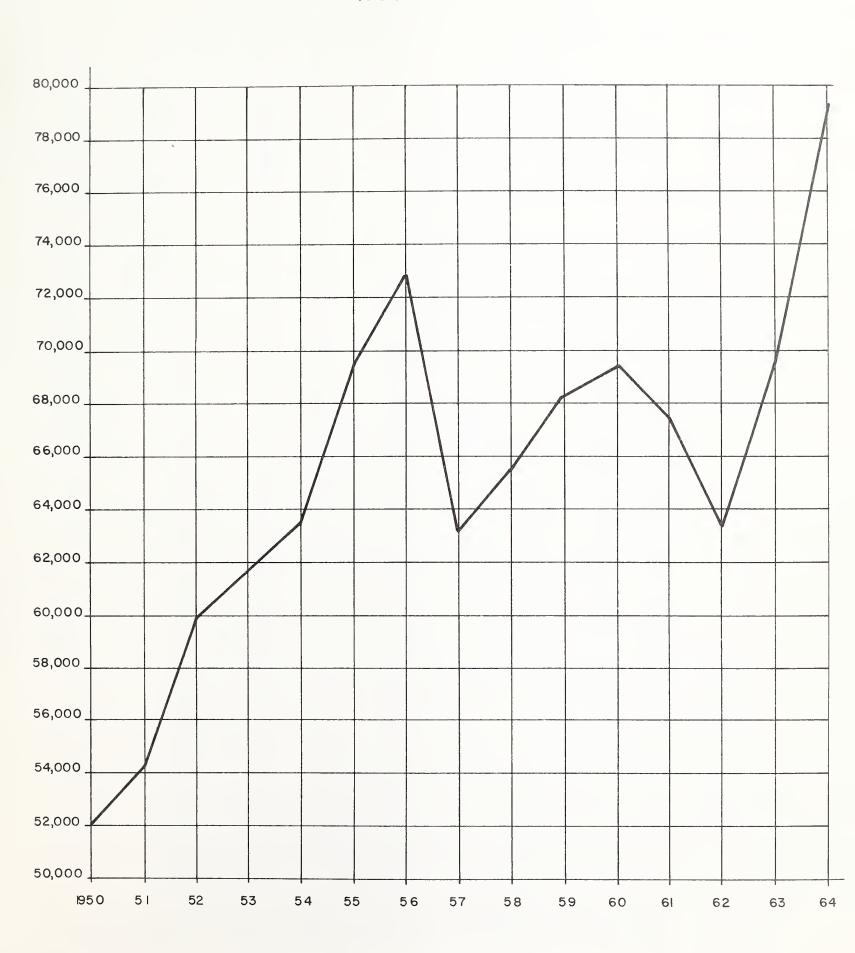
Cascade County is basically a dry-land farming area although some irrigated crop production is found in the County. The long-term trend in the County has exhibited a relatively small reliance upon irrigated crop land even in drought years. For the most part, the value of crops produced on irrigated land has not varied too greatly from year to year except in 1953 and 1955 when the value of crop production dropped below \$1 million. Between 1952 and 1963 the 12-year total value of crop production by irrigated land was \$14,091,100 compared to \$99,530,800 for non-irrigated land. This amounts to a 12-year weighted average of irrigated and non-irrigated crop production of 12.4 and 87.6 percent respectively.



CASCADE COUNTY AGRICULTURAL INCOME

SOURCE: MONTANA DEPT. OF AGRICULTURE, (IN COOPERATION WITH U.S. DEPT. OF AGRICULTURE, AGRICULTURAL MARKETING SERVICE)
MONTANA AGRICULTURAL STATISTICS, 1952 - 1963

ALL CATTLE ON CASCADE COUNTY FARMS 1950-1964



SOURCE: MONTANA DEPT. OF AGRICULTURE, MONTANA AGRICULTURAL STATISTICS, VARIOUS YEARS.

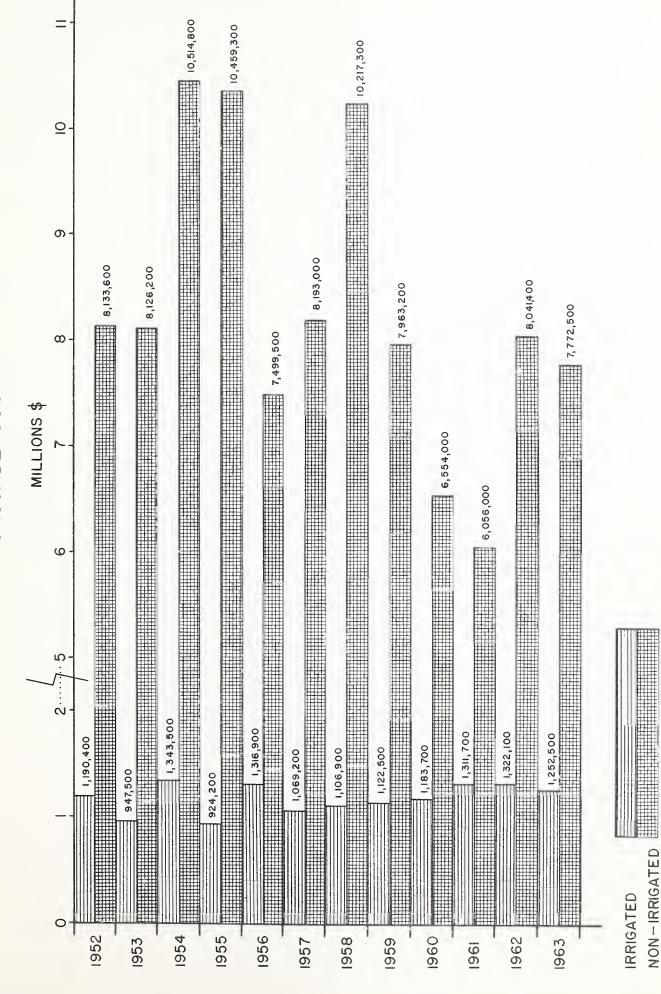
Table 8

CASCADE COUNTY - ACRES HARVESTED & VALUE OF CROP PRODUCTION BY IRRIGATED & NON-IRRIGATED LAND

Non-Irrig. as % of Total	87.2	9.68	88.7	91.9	85.	88 . 51	90°2	7.78	84.7	82.2	85.9	83.9		
Total	\$ 9,324,000	9,073,700	11,858,300	11,383,500	8,816,400	9,262,200	11,324,200	9,085,700	7,737,700	7,367,700	9,363,500	9,025,000	\$113,621,900	
Non-Irrigated s Value of Crop ted Production	\$ 8,133,600	8,126,200	10,514,800	10,459,300	7,499,500	8,193,000	10,217,300	7,963,200	6,554,000	0,056,000	8,041,400	7,772,500	\$99,530,800	
Non-Acres Harvested	253,950	249,910	242,280	243,330	227,310	252,210	258,710	246,240	236,413	207,312	226,515	223,809		(
Irrig. as % of Total	12.8	10.4	11.3	8.1	14.9	11.5	8	12.3	15.3	17.8	14.1	16.1		
Irrigated Value of Crop	\$ 1,190,400	947,500	1,343,500	924,200	1,316,900	1,069,200	1,106,900	1,122,500	1,183,700	1,311,700	1,322,100	1,252,500	\$14,091,100	
Ir. Acres Harvested	21,540	23,760	29,010	22,755	23,410	25,780	28,690	24,990	21,387	22,949	27,790	26,591		
Year	1952	1953	1954	1955	1956	1957	1958	1959	1960	1961	1962	1963		1

Montana Department of Agriculture, (Cooperating with U. S. Department of Agriculture, Agricultural Marketing Service), Montana Agricultural Statistics, various years Source:

VALUE OF IRRIGATED & NON-IRRIGATED CROP PRODUCTION CASCADE COUNTY



SOURCE. MONTANA DEPT. OF AGRICULTURE, (IN COOPERATION WITH U.S. DEPT. OF AGRICULTURE, AGRICULTURAL MARKETING SERVICE) MONTANA STATISTICS, 1952-1963 AGRICULTURAL

Malmstrom Air Force Base

Attempting to gauge the real economic importance of Malmstrom Air Force Base is a rather difficult task. Although excellent cooperation was received from Malmstrom, certain questions could not be answered because of military reasons. In addition, although the sales figures for the Base Exchange were furnished, it was requested that they not be made public. In complying with this request we will therefore refer to data reported by the 1963 Census of Retail Trade for commissaries, exchanges, and eating and drinking places operated for military personnel by the U. S. Department of Defense. This is essentially public information since it is published by the Census and reference to it cannot be considered a breach of confidence.

The Census reported that Cascade County had total sales of \$5.1 million in 1963 resulting from commissaries, exchanges, and eating and drinking places. The 6,150 military personnel assigned to Malmstrom in 1963 accounted for approximately 17,600 persons or 3,270 families and 2,880 single personnel. If the per capita sales figure of \$1,586 is applied to this population estimate it results in \$27.9 million in retail sales that is accounted for by Malmstrom families. This estimate is somewhat high since we know that the retail trade area outside of the County accounts for approximately 26 percent of sales. If we adjust the \$27.9 million by this amount it leaves us with a net figure of \$20.6 million. Deducting the \$5.1 million in sales on the base leaves a net of \$15.5 million in Cascade County's retail sales that are accounted for by Malmstrom personnel. Thus 13 percent of Cascade County's retail sales in 1963 can be attributed to Malmstrom Air Force Base.

It is almost impossible to estimate what Malmstrom's impact is on wholesale sales since exact estimates on what is procured through local wholesalers could not be obtained. The previous analysis on wholesale sales and the tremendous growth encountered between 1958 and 1963 leads one to surmise that perhaps Malmstrom accounted for a good portion of this increase. This supposition however is not supported by the figures supplied by Malmstrom's Economic Impact Study for 1963. Malmstrom estimated that it spent \$2.75 million for local food stuff purchases. The two fastest growing wholesale categories in 1963 were farm products and groceries which together accounted for total sales of \$76.3 million. The Malmstrom food purchases represent only 3.6 percent of the \$76.3 million in farm products and groceries. Since figures are unavailable it is not possible to gauge the overall economic impact of other local Malmstrom purchases on wholesale sales.

In other areas Malmstrom's economic impact is quite formidable although there are some expenditures of a non-recurring nature such as the \$11.5 million spent in 1963 for missile construction and the \$200,000 spent in 1964 for the construction of the Malmstrom Federal Credit Union. Adjusting for these non-recurring expenditures leaves a total expenditure of \$53.3 million in 1963 and \$44.6 million in 1964, which breaks down as follows:

	1963	1964
Military & Civilian Payroll Base Procurement Missile Construction Malmstrom Fed. Credit Union Federal Aid to Education Contributions	\$39,200,000 12,074,000 11,500,000* 2,060,000	\$30,290,000 13,197,000 200,000* 1,114,000 26,000
Total	\$53,334,000	\$44,627,000

*Considered to be non-recurring items and therefore excluded ed from total.

In discussing long-range trends and what effect the integration of the new missile wing would have on manpower requirements, Malmstrom officials could not give any figures. They did indicate that the Minuteman II system was going to be the basic offensive missile system at least until the 1980's. This, presumably, should have a stabilizing effect upon Malmstrom and its relationship to the Cascade County economy. However, the rapid changes that have taken place in missile and defense technology do not guarantee that this will still be the basic missile system by 1981. Accordingly, for our 1981 projections of employment it was decided to place an indirect emphasis upon military employment rather than a direct emphasis. This means that in projecting the overall employment and population in the County for 1981 only the civilian labor force was utilized. Cascade County had a low ratio in the percentage of civilian labor force to total population because of the Malmstrom personnel - 32.9 percent in It is expected that this low civilian labor participation rate will hold true in 1981 because of the increased personnel at Malmstrom that are not counted as part of the civilian labor force.

INDUSTRY ANALYSIS AND PROJECTIONS OF EMPLOYMENT TO 1981

Introduction

In developing the economic forecast for Cascade County in 1981, major emphasis has been placed on employment projections by industry. The reasons for this reliance upon employment are the clear-cut relationship between employment growth and population growth, the availability of past trends in employment data as reported by the Census, and the availability of employment projections for the United States and the State of Montana with which Cascade County could be compared on a ratio basis. Additionally, the interview and questionnaire data assembled during the study was keyed to business growth and prospects as they related to employment.

In the development of any economic forecast certain basic assumptions must be made in order to focus in on long-term trends and not be influenced by short-term developments. The employment forecast assumes that no major depression will occur between now and 1981 and also that no major war will take place.

As previously stated, in the forecast of employment by industry group, the major emphasis was placed on past trends and the relationship of growth between Cascade County and the State. Projections for Montana in 1976 were made by the National Planning Association in a study entitled Economic Projections by States for the Years 1976 and 2000 and extrapolated to 1981. Projections were then developed for Cascade County based upon its share of State employment in each industry.

One last factor regarding this section of the report should be mentioned — the limitations of the projection. The "target date" of 1981 is currently 16 years away and many changes and events can occur in this time. Users of this report should therefore bear in mind that the projections are based upon the best available data that could be secured at this time. In the case of Great Falls and Cascade County data, collection came from many numerous sources. The fact that the County did not become a Standard Metropolitan Statistical Area until 1960 caused certain hardships since data from government sources was not available for prior years or even for the current period (two examples are the Annual Survey of Manufactures, and Central Area Retail Sales Statistics). Consequently, the chances for some error, although not intentional, are present.

Agriculture

Agricultural employment in Cascade County decreased 22 percent between 1950 and 1960. Agriculture's proportion of the County's employed labor force dropped from 9.7 percent in 1950 to 6.2 percent in 1960. Compared to the State however, Cascade County agricultural employment showed slight increases. In 1940 Cascade County comprised 3.4 percent of total State agricultural employment, in 1950 3.5 percent, and in 1960 3.8 percent. Thus the statewide decline has been at a faster rate than Cascade County.

It is anticipated that agricultural employment in the County will decline by 1981 but at a much lower rate. Cascade County employment in agriculture in 1981 is expected to range from 1,330 to 1,400. This represents a decline ranging from 10.5 to 5.8 percent.

The reasons for this slowdown in the rate of the decline are based upon the growth of livestock and livestock production and the stable production of crops. In addition there is a growing possibility of a change in the Federal Government's agricultural policies from curtailment of production, particularly in grain crops, to production of surpluses. This has been brought about by the increased awareness of using surplus crops as an instrument of foreign policy in the underdeveloped nations of the world. Although this policy may not be changed in a few short years it certainly looms as a good probability by the late 1970's. Thus a growing international market for agricultural products could have an effect on past trends. The reason that no increase in agricultural employment is contemplated is due to the expected continuation of increases in yields per acre and agricultural productivity per unit of labor.

The limitations on this forecast include the fact that weather is probably the chief controlling factor. Drought conditions or unfavorable weather during the growing season could severely affect agricultural production and employment. A second factor is the effect of governmental agricultural policies which can change at any time. Finally, it is impossible to say how much Cascade County will be producing in future years because commodity projections are unavailable for the State.

In conclusion, it is anticipated that Cascade County's agricultural economy will continue its stable production record of past years. On the plus side of the economy is the possibility of increased agricultural income resulting from a possible

change in Federal policies of limited grain production to an increase in production. We also have the prospect of increased livestock production and feedlot operations in the County utilizing locally produced feed grains. The livestock prospect will depend upon the growth of export markets in other parts of the State as well as the country, particularly in the west. On the minus side, there is always the possibility of adverse weather conditions which will affect production and a continued trend in increased agricultural output per worker which will continue to reduce labor requirements.

Manufacturing

Manufacturing employment in Cascade County increased from 2,935 to 3,260 between 1950 and 1960, an 11.1 percent increase. From a relative standpoint, manufacturing employment has shown a decline as a percentage of total County employment and total State manufacturing employment. This has been chiefly due to increased efficiency and output per production worker. Some major employers reported projected increases in employment for their firms. It is therefore estimated that manufacturing employment in 1981 will range from 4,300 to 4,400.

Following is an analysis of the major industrial sub-groups along with a capsule summary of the various factors that will influence its future outlook in terms of growth.

Primary and Fabricated Metals (SIC's 33 & 34)

In discussing primary metals in the County we are mainly talking about The Anaconda Company. Anaconda currently employs about 1,500 persons or 100 percent of total employment in primary metals (SIC 33). If fabricated metals (SIC 34) are included then Anaconda accounts for approximately 95 percent of total employment. Establishments in the fabricated metals industry are, for the most part, small iron and sheet metal firms.

Although Anaconda is often thought of as mainly a copper producer, in actuality it's local production is about two-thirds zinc and one-third copper. The refining operation, which utilizes electrolysis, recovers other metals such as zinc and lead as well as precious metals such as gold and silver.

Anaconda itself is the main customer for the zinc and copper produced at the Great Falls reduction plant. Approximately 75 percent of production is sent to its other plants while 25 percent goes to its toll customers.

Copper, being a homogeneous product, is subject to less competitive action in the industry because there is no quality differentiation of one producer compared to another. Competition depends, for the most part, on price. Competition is also influenced by imports and exports since the copper market is essentially a world market.

The future prospects of the copper industry depend to a great extent on general business conditions. This is due to the fact that it is used primarily in industries making producers and consumers goods. It is also susceptible to international business and political developments since the ore is found in numerous areas of the world and because it enters freely into international trade.

Although Anaconda has increased its production efficiency, the industry as a whole has not had any major technological improvements for years and the chances of large and rich discoveries, although not impossible, are diminishing. Finally, copper is highly competitive with other metals and is encountering increasing competition from aluminum. The company itself branched into the aluminum field with the construction of a new mill in 1954 for the manufacture of aluminum rods, wire, and cable which are made from refined aluminum produced at the Anaconda Aluminum Company plant at Columbia Falls.

Food and Kindred Products (SIC 20)

Food and kindred products is the second largest industry in manufacturing. Between 1950 and 1960 it increased in employment from 520 to 809 or 55.6 percent. Its relative position within total County employment increased slightly although its relative position within the State's food and kindred products industry was greater - 14.9 percent in 1950 and 19.1 percent in 1960. It is expected that 1981 employment will increase to approximately 1,165 persons.

The food and kindred products industry falls into three classifications: (1) that portion which serves local markets; (2) that which serves export markets; and, (3) that which serves both local and export markets. Examples of the first group include dairy and bakery products; examples in the second group are flour milling and feed grain products; the last group includes meat packing, and malt beverages.

Milling and Feed

Milling and feed producers are the largest single group

within food and kindred products, accounting for 355 employees. Milling is characterized by high raw material costs and low labor costs. Raw material is about 70 percent of production cost while labor is only 3 to 5 percent. Since wheat is an agricultural product, the size of the crop is irregular. Among the principal factors that influence the amount of the available supply are the acreage in cultivation, rainfall, plant diseases, the annual carryover, exports and domestic demand for feed. This makes for a highly complex combination of forces influencing the price of wheat which is subject to rather wide fluctuations.

In the past century there has been a decrease in per capita consumption of wheat flour. This decrease is indicative of the increase in the standard of living and is likely to continue as long as disposable income continues to increase. In the face of this decreasing per capita consumption pattern, only an increase in population will make it possible for the industry to maintain its production. Thus the drop in per capita consumption will be offset in part by the growth in population and by the efforts of mills to diversify by widening the range of their production to include products the demand for which is growing.

With increased export markets and increased production especially in the south and west, this segment of the industry should expand slightly by 1981.

Meat Packing

The meat packing group is the second largest employer in food and kindred products, employing approximately 150 persons. The trend of employment has been up in recent years and the firms interviewed for this study indicated favorable growth prospects based upon increased plant efficiency. Small employment increases should take place as a result of increased local population although export increases will be more difficult. This is due chiefly to the increased competition from large packers who have decentralized their operations in recent years by establishing packing houses closer to the sources of supply.

Beverages

Malt beverages and soft drinks account for approximately 130 employees. The Great Falls Brewery Company is the largest within this group employing about 100 persons. Its product is shipped to other parts of the State and neighboring States such as Wyoming, Idaho, North Dakota and Washington. The soft drink segment of the industry has also served areas immediately

adjacent to Cascade County although most of its sales are within the County. Employment should increase over the years to 1981.

Bakery and Dairy Products

These two groups are definitely oriented toward local markets although bakery products are shipped to outlying counties close to Great Falls in travel time. Employment should rise slightly with increased population and increased production.

Printing and Publishing (SIC 27)

The printing and publishing industry has shown continuous growth over the years. In 1960 it accounted for 576 employees, an increase of 94 percent from 297 employees in 1950. This is a growing industry on both a local and national scale and with increased business activity and population growth, employment should increase to approximately 725 persons.

Other Industries

Other industries include furniture, lumber and wood products; machinery; motor vehicles and vehicle equipment; transportation equipment; other durable goods; apparel and fabricated textile products; chemical and allied products; and other non-durable goods. Together these industries accounted for 505 employees in 1960. These are relatively small industries and since the Great Falls area has few distinct comparative advantages in these various industries the 1981 employment levels should increase to approximately 800 persons in 1981.

Conclusion

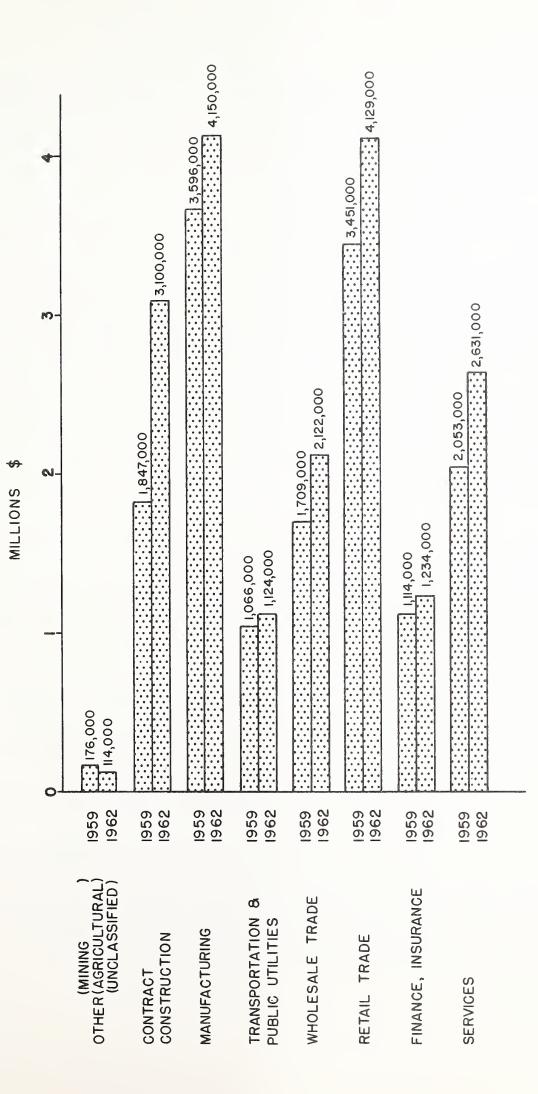
In conclusion, it is anticipated that manufacturing employment will increase moderately between now and 1981. No major new industries are expected to locate in the Metropolitan Area of the magnitude of The Anaconda Company. Of course this does not rule out the possibility of a large new industry locating here. Rather, the growth that will take place will be a rather steady expansion of existing industries. Some new industries in the food and kindred products category can be expected, particularly those that can process agricultural products grown in the region surrounding Great Falls.

Table 1

	1981 Employment	1,700	1, 165	725	800
ACTURING PROJECTIONS	Outlook on Balance	Employment levels should increase slightly above 1960 levels.	Increased employ- ment should result from expanding markets.	<pre>Employment should increase but not as fast as in past years.</pre>	Should stay fairly proportional to total manufacturing employment.
CASCADE COUNTY MANUFACTURING	Minus Factors	1. Continued competition from other metals. 2. Increased production efficiency leading to decreasing labor requirements.	1. Industry can capitalize on in- creased mechaniza- tion and reduced labor requirements.	1. Effect of tech- nological change on employment.	
FACTORS OF	Factors	1. Increasing industrial demand in domestic and foreign markets. 2. Increased product diversification. 3. Recent expansion in production capacity.	1. Expanding export markets in the west. 2. Close proximity to production areas. 3. Increasing population in local market.	1. Expanding local and outside mar- kets within the State.	
SUMMARY OF PLUS AND MINUS		1. Foreign competition. 2. U.S. economic conditions. 3. Supply of concentrates from foreign sources.	<pre>l. Weather as it affects agricul- tural raw mater- ials production.</pre>	1. Rate of techno- logical change in production methods.	
	Industry Group	Primary & Fabricated Metals	Food & Kindred Products	Printing & Publishing	Other Manu- facturing

TOTALS

TAXABLE PAYROLLS BY INDUSTRY GROUP 1959 8 1963



SOURCE: U.S. DEPT. OF COMMERCE, BUREAU OF THE CENSUS, COUNTY BUSINESS PATTERNS, MONTANA, FIRST QUARTER 1962.

Wholesale and Retail Trade

Wholesale and retail trade was the largest single employer in Cascade County in 1950 and 1960. The employment dominance of this group can best be shown by the fact that it comprises almost 24 percent of Cascade County's 1960 labor force compared to the State's 20.3 percent.

As previously mentioned, Great Falls serves a rather extensive trade area in both wholesale and retail sales and has shown particularly strong growth in the former. The larger trade area represented by wholesaling bore out the analysis estimate that approximately 50 percent of wholesale trade employment is basic compared to only 26 percent for retail trade. Growth trends in the trade area outside of Cascade County show that the trade area has not been increasing as fast in population as either the County or the City. The Upper Midwest Economic Study in Trade Centers and Trade Areas of the Upper Midwest showed that the combined primary wholesale and retail trade areas for Great Falls increased only by 20.2 percent between 1950 and 1960 compared to 38.4 percent for Cascade County and 41.2 percent for Great Falls. Thus the local trade area is growing at a faster rate than the outlying trade area.

What this means in terms of future employment prospects is that local population growth will be more of a factor in increased trade employment than the outlying trade area growth. This is not to say however that the outlying trade area growth is not important but rather that as far as the future is concerned its importance will assume a smaller role in terms of total wholesale and retail trade.

It is anticipated that the basic portions of trade employment should decrease because of the increasing share that local population will comprise of the total trade area. Employment in 1981 should range from a low of 8,600 to a high of 8,800.

As Great Falls grows in both area and population there will probably be a certain amount of decentralization of retail establishments to the newly developing shopping centers. It is important that the Central Business District not be allowed to deteriorate as a shopping area because this will affect its attraction for outlying area trade. Modernization of stores, ease of access, and the adequate supply of off-street parking are vital to allow Great Falls to continue to serve as a regional shopping center for north-central Montana.

Services

Service trades include such categories as business and repair services, household and personal services, entertainment and recreation services, educational services, welfare, religious and non-profit organizations, and hospitals and other professional and related services. This is the second most important industry in total employment, comprising 23.6 percent of the labor force in 1960. The growth in services between 1950 and 1960 showed strength with a 47 percent increase.

Trade area analysis revealed that approximately 15 percent of employment in this group can be considered basic or approximately 850 employees. Most of this basic employment can be found in specialized business and repair services, medical facilities including hospitals and clinics, professional services and educational services (College of Great Falls).

From the previous analysis of retail trade and selected services it was noted that selected service sales had a higher growth rate than retail sales. This was also true for the trend in employment growth. This indicates that people have been shifting their spending away from the purchase of goods toward services. This trend is expected to continue in the future and services are supposed to increase in relative importance.

On this basis service employment can be expected to range from 9,000 to 9,200 by 1981.

Transportation, Communications and Utilities

Within this group, which has shown an overall decrease of 4.3 percent between 1950 and 1960, there are various sub-cate-gories which include railroads, trucking and transportation, and communications and utilities. In actuality, it has been the railroad category that has experienced a loss in employment of 36.5 percent between 1950 and 1960. Trucking and other transportation had a slight increase of 4.6 percent while communications and utilities increased 52.6 percent.

Railroad Transportation

The railroad industry in recent years has been negotiating on a national basis for reduction of certain personnel that they no longer consider essential to their operations, such as the railroad firemen. Their competitive position with other segments of the transportation industry has, for example, declined with relation to trucking and air transportation. They have, however, benefited from the integration with truck transportation as in "piggy-backing". This is where a complete semi-trailer of freight is carried on a flat car. This trend toward freight integration can be expected to continue in the future so that freight tonnage will probably rise.

The effect upon employment will not be expected to cause an increase. This is chiefly due to the fact that continued technological changes such as automation in freight yards and traffic control will lower labor requirements. On the clerical side, improved systems and procedures through automation can be expected to reduce clerical and administrative requirements.

The conclusion is that railroad employment should remain about constant with present levels or about 900 employees.

Truck and Motor Transportation

This portion of the industry accounted for 520 employees in 1960. The continued improvement and construction of major highways, particularly the interstate system, should result in an increase in freight hauling and employment. This increase could be substantial if the trucking industry continues to make major inroads on rail transportation.

Another segment of the transportation industry that can be expected to grow in small but increasing numbers is local transportation. As the Great Falls area grows in population, more cabs, for example, can be expected. Since no public transportation exists at the present time, it can be expected that some form of mass transportation system, such as buses, will be in operation by 1981.

This category of transportation can be expected to increase to about 700 employees in 1981.

Air Transportation

There are approximately 250 employees that are engaged in air transportation in the Metropolitan Area. Information derived from interviews shows that the Great Falls International Airport is expecting a substantial growth in air travel and operations. In 1964 a total of 57,247 passengers enplaned at Great Falls and it is expected to increase to approximately 96,000 by 1975. Other growth factors include an increase in scheduled air

carrier aircraft departures from 4,736 in 1964 to 7,100 in 1975; an increase in general aviation aircraft based at the airport from 102 to 160 and an increase in total aircraft operations from 96,292 to 130,000 in 1975.

With air transportation assuming greater importance in the future, employment can be expected to increase to about 400 to 500 persons by 1981.

Communications and Utilities

In 1960, employment in this category accounted for 859 persons (this also includes sanitary services). The major employers, Montana Power Company and Mountain States Telephone account for the main share of employment or approximately 500 employees. Projection by both companies up to 1970 indicates an increase in power production as well as an increase in telephone subscribers. By 1970 Montana Power expects to be producing approximately 90,000 KW's, a significant increase from the 1964 figure of 51,000 KW's. Mountain States Telephone expects an increase in total subscribers from 22,750 in 1965 to approximately 25,000 by 1970 while the total number of telephones is expected to rise from 38,100 in 1965 to about 45,000 in 1970.

The effect of the increases upon employment will be more pronounced in the communications than in the utilities field. However, it is quite reasonable to expect a gain in employment because of the continued growth in business and population.

Employment in 1981 may be expected to increase from 859 to approximately 1,400. In total, transportation, communications and utilities can be expected to range from 3,400 to 3,500 by 1981.

Construction

Construction employment in 1960 totaled 2,078 persons, an increase of 42.6 percent over 1950 employment of 1,457. Construction has been a strongly growing industry as evidenced by its increasing relative position in the Cascade County labor force -7.4 percent in 1950 and 8.6 percent in 1960. Employment in Cascade County has also been growing faster than that of the State. In 1940 Cascade County employment in construction was only 7.8 percent of the State total; in 1950 it was 9.9 percent and in 1960 it was 13.9 percent.

The large increase in construction employment could not be attributed to the Malmstrom missile construction because the growth has been of a long-term nature and the 1960 growth preceded the construction of the missile complex. Rather, it is a manifestation of general economic growth and population growth in the Metropolitan Area.

Construction employment should continue to grow in the area as a result of continued government spending, particularly for the military, and also for civilian agencies. Other factors pointing to continued increases in construction are the continuation of the Federal Interstate Highway Program which will last until 1972, although it is anticipated that other Federal highway programs will be authorized subsequent to 1972; and continued commercial, industrial and residential construction which will be generated by overall economic growth forces.

In conclusion, construction employment in 1981 should range from 3,900 to 4,000.

Finance, Insurance and Real Estate

This industry group accounted for 1,257 employees in 1960, an increase of 64 percent over the 766 employees in 1950. In terms of relative growth, finance, insurance and real estate increased from 3.9 percent of the labor force in 1950 to 5.2 percent in 1960. Its relative position in the State has stayed fairly stable since 1940, ranging from 15.9 percent of the State total in 1940 to 15.6 percent in 1960. Trade area analysis revealed that finance and insurance employment was approximately 10 percent basic.

Generally, these two industries are becoming highly automated in systems and procedures thus reducing the requirements for labor. Real estate employment should increase along with the growth in population. It is anticipated that continuing growth will take place in this industry with 1981 employment ranging from 2,500 to 2,600.

Government (Federal, State and Local - Civilian)

Employment in government showed a fairly strong increase from 1,042 in 1950 to 1,601 in 1960, an increase of 53.7 percent. A small increase in government's relative position also took place between 1950 and 1960 with a rise from 5.3 percent of total County employment to 6.6 percent. Government employment

showed a stronger relative increase when compared to State employment levels, having risen from 7.1 percent in 1940 to 10.3 percent and 12.7 percent in 1950 and 1960 respectively.

Government employment at all three levels has tended to show increases as a result of increased population and expanding governmental services and programs. This is particularly the case at the Federal level where growing employment can be expected. The same trend will also prevail with State and local government but to a lesser extent.

Employment in 1981 can be expected to range from 2,900 to 3,100.

Other Industries

This group includes unclassified and "not reported" industrial employment. We have added two other industrial categories - forestry and fisheries, and mining - because of their low employment and because they are not significant in the overall economic picture. Mining, for example, employed 122 persons in 1950 and 121 in 1960, while forestry and fisheries employed 16 in 1950 and 21 in 1960.

Total employment in this overall category in 1960 was 776 or 3.2 percent of total employment while in 1950 employment totaled 402 or 2.0 percent of employment. Since this category has been increasing in relative importance it is expected that 1981 employment will range from 2,100 to 2,165.

SUMMARY OF EMPLOYMENT PROJECTIONS FOR 1981 (Rounded to nearest 100)

Industry	Low	High
Agriculture Construction Manufacturing Transportation, Communications & Utiliti Wholesale & Retail Trade Finance, Insurance and Real Estate Services Government Other Industries	1,300 3,900 4,300 es 3,400 8,600 2,500 9,000 2,900 2,100	1,400 4,000 4,400 3,500 8,800 2,600 9,200 3,100 2,200
TOTALS	38,000	39,200
MEDIAN	38	, 600

CASCADE COUNTY POPULATION PROJECTIONS - 1981

Correlation of Population and Employment

In analyzing the growth of Cascade County's population and employment there is a correlation between the number of people employed and total population. This is called the labor participation rate - a figure which shows the percentage of people employed in relation to the overall population.

The long-term trend of Cascade County's labor participation rate has been decreasing. That is to say that the number of people employed have been supporting a growing number of people not employed. Following is a table showing this trend.

LABOR PARTICIPATION RATE FOR CASCADE COUNTY, 1930-1960

Year	Population	Employment	Labor Participation <u>Rate</u>
1930	41,146	17,628	42.8%
1940	41,999	15,053	35.8
1950	53,027	19,742	37.2
1960	73,418	24,184	32.9

The reason for the lower 1960 rate is undoubtedly due to the presence of Malmstrom personnel and their families in the population but their absence from the labor force (the employment figures are for civilians only). It is assumed that by 1981 the labor participation rate will decline slightly to 32 percent because of the continued growth of Malmstrom whose personnel will not be counted in the labor force.

By dividing the two employment estimates by 32 percent we are able to derive the following population projections.

			1981
	Projected	Projected Labor	Projected
	Employment	Participation Rate	<u>Population</u>
Low Estimate	38,000	32%	118,750
High Estimate	39,200	32%	122,500

As a check on this procedure it was decided to include the projected Malmstrom personnel in the 1981 labor force. timated military employment for Malmstrom in 1981 is 6,000 persons, which means a total estimated employment ranging from 44,000 to 45,200. The labor participation would have to be adjusted since the ratio would have to go up to account for those employed in the military. In 1960 there were 4,187 persons in the armed forces which means a total employment of 28,371 (24,184 civilian plus 4,187 military). The 1960 labor participation rate therefore was 38.6 percent if the military is included. For 1981 a slight decline to 38 percent would be assumed which would mean a population range from 115,789, (44,000 divided by 38%), to 118,947, (45,200 divided by 38%). We prefer to base our projection on the former method, utilizing the civilian labor participation rate, since this is the one that employs longer historical trends. Taking the median between the two former estimates would indicate a 1981 population of 120,625.

Population Estimates from Other Sources

The Upper Midwest Economic Study in their report entitled Projected Urban Growth in the Upper Midwest: 1960-1975, have projected a 1975 population in Cascade County ranging from a low of 88,700 to a high of 102,700 and a probable estimate of 95,700. Extrapolating this growth trend to 1981 indicates a low population of 99,760, a high of 114,400 and a probable of 104,640.

An additional check was made with projections for the State of Montana and the United States by the U. S. Bureau of the Census in <u>Current Population Reports</u>, (Series P-25, February 1965, No. 301). Using series I-B which was the median projection and was based upon a moderate decline in fertility rates and on past state migration patterns, the projected 1981 U. S. population was 248,000,000 persons while the State projection was 865,000.

Cascade County has shown that over the long trend it has been increasing in its share of both State and U. S. population as shown in the following table.

CASCADE COUNTY POPULATION AS A PERCENTAGE OF MONTANA & U. S.

	1930	1940	1950	1960	1981*
Montana	7.65	7.51	8.97	10.88	14.5
U.S.	.033	.031	.035	.040	.049

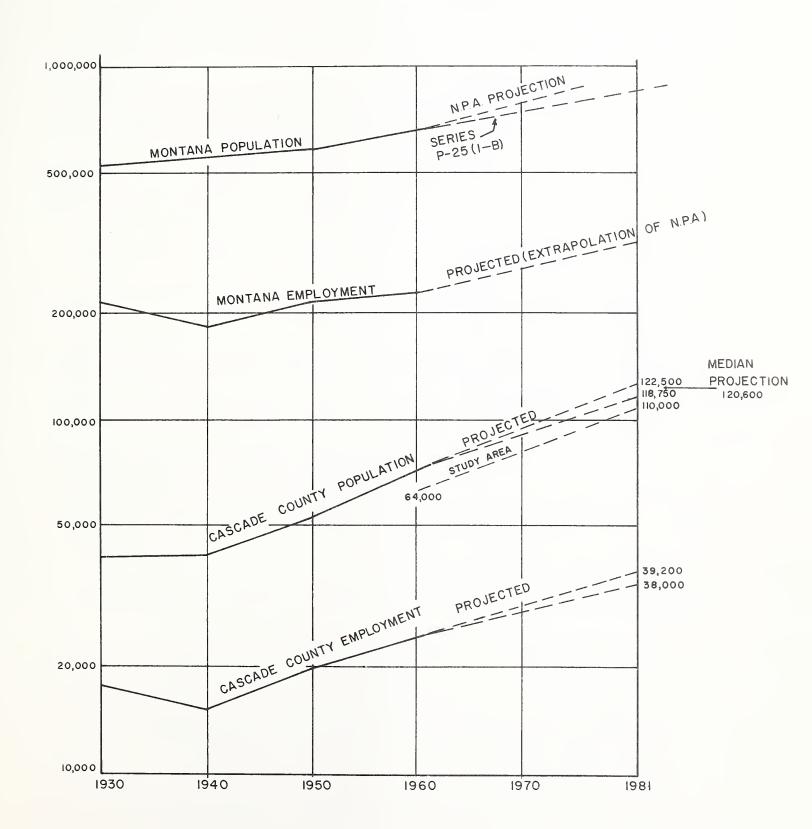
^{*}Estimated

Multiplying the State projection of 865,000 by 14.5 and the U. S. projection by .049 gives a projected range with a high of 125,400 and a low of 121,500.

Thus it is felt that the economic study and the derived median projection of 120,625 provides a reasonable estimate of 1981 population that falls between the Upper Midwest Economic Study projections and the U. S. Census Bureau ratio projections. It is also felt that this is a reasonable estimate for transportation planning purposes.

In conclusion, the study area population should increase from 64,000 in 1960 to approximately 110,000 by 1981.

COMPARATIVE POPULATION 8 EMPLOYMENT TRENDS 8 PROJECTIONS: 1930-1981 MONTANA 8 CASCADE COUNTY



Comparison with Other Projections:

In addition to the comparisons made with the <u>Upper Midwest Economic Study</u>, and <u>Current Population Reports</u>, U. S. Census, February, 1965, several comparisons were then made with studies and projections of other agencies:

Master Land Use Plan, 1958, Great Falls City-County Planning Board.

This study gave estimates for 1958 and projections to 1975, by the "step-down" method. Using the same annual average increase, these projections were extended to 1981 for comparative purposes:

	1958	1975	1981
	<u>Estimate</u>	<u>Projection</u>	<u>Projection</u>
Cascade County	67,484	89,187	96,847
City of Great Falls	49,262	71,878	79,860

U. S. Census, March, 1966 Projection.

This latest U. S. Census projection forecast a population of 121,000 for Great Falls in 1985. This was adjusted to 1981 by using the "urbanized area" 1960 population of 57,629 as the base year.

	1	960 Ce	nsus 1	.985 1981	Adjusted
	P	<u>opulat</u>	ion Proj	<u>ection Pop</u>	ulation
Great Falls Urban	nized Area	57,6	529 12	1,000 1	10,861

Planning Survey Division, Montana State Highway Commission, September, 1965.

A very complete and detailed analysis of population trends was made by the Planning Survey Division as a part of Volume IV of the Great Falls Urban Transportation Survey. This analysis utilized the ratio or "step-down" method, whereby projections of Montana and U. S. population by the U. S. Census were utilized to project population of Great Falls and Cascade County. The percentage relationship between Montana and the U. S. population was plotted from 1890 to 1960, and projected to 1981. Similarly, the percentage relationship between Cascade County and Montana was plotted from 1890 to 1961, and projected to 1981. Last, the percentage relationship between the Study Area and Cascade County was projected from 1960 and 1961 to 1981. The following projections were then derived:

	1960 Population	1981 Projection
Cascade County	73,418	126,000
Great Falls Study Area	64,000	114,000

These projections were reviewed with local utilities companies and other agencies by Planning Survey personnel and the City-County Planning Board, and were found to correlate very closely.

After a careful review, it was felt by Small, Cooley and Associates that the Planning Survey projections had been accurately prepared by the ratio method.

The following table summarizes the various projections discussed:

POPULATION PROJECTIONS

		1981 Cascade County	1981 Great Falls
1.	1958 Planning Board Projections	96,847 ¹	79,860 ²
2.	Upper Midwest Economic Study	104,640 ³	94,699 ⁴
3.	Small, Cooley and Associates Economic Projections	120,625	110,000
4.	U. S. Census, March 1966 Projection		110,861 ⁵
5.	Derived from "Current Population Reports," U. S. Census, Feb. 19		111,7224
6.	Montana State Highway Departmen Projection	t 126,000	114,000

^{* * * * * * * * * * *}

¹ The actual projection was 89,187 to 1975. This was extended to 1981.

The actual projection was 71,878 to 1975. This was extended to 1981.

The actual projection was 95,700 to 1975. This was extended to 1981.

⁴ Derived by multiplying County figure by 90.5%.

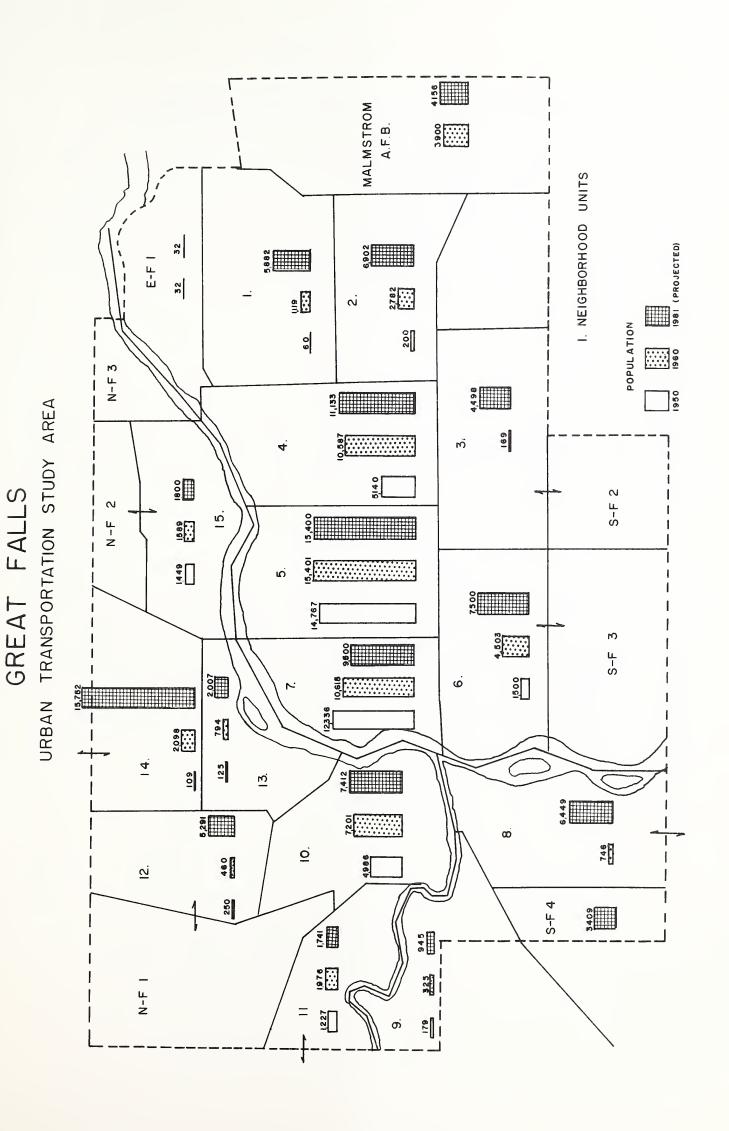
⁵ The actual projection was 121,000 to 1985. This was adjusted to 1981.

Population Projections Correlated with Land Use Projections

In order to obtain population figures for O-D Zones and Neighborhood Units to correlate with the 1964 Land Use Statistics, the following procedure was followed:

- 1. Overall population estimates as of 1964, prepared by the Great Falls City-County Planning Board and the Chamber of Commerce were reviewed.
- 2. 1960 population was derived for each block from the 1960 Census.
- 3. From the Building Inspector's records, new residential building permits were recorded for each dwelling unit for each block for 1961, 1962, 1963 and 1964. Dot maps showing new construction by number of dwelling units for each year, 1950 through 1965, have been prepared by the City-County Planning Board and are available in that office.
- 4. Total population for 1964 was derived for each block, each O-D Zone and each Neighborhood Unit for planning purposes.
- 5. Following the projections of land use, described in the following section, population projections for each O-D Zone and each Neighborhood Unit were made for five-year periods from 1964.

The following chart summarizes population for the various neighborhood units for 1950, 1960, and 1981.



Review of U. S. Census and Other Population Information

Available information from the 1950 Census and the 1960 Census was studied in order to derive helpful information pertaining to the land use projections, population projections for the various parts of the City, and overall helpful trend information. In 1950, the Metropolitan Area was divided into enumeration districts, and information is available for population, number of dwelling units, and number of occupied dwelling units for each enumeration district. A breakdown as to sex and age was available only for groupings of enumeration districts in 1950.

Unfortunately, in 1960 the enumeration districts were completely changed, making a comparison impossible. However, in 1960 block statistics were available for the following items: population, number of housing units by condition and plumbing, occupied housing units by owner-occupied and renter-occupied, average dollar value, number of rooms, amount of rent, number occupied by non-white persons, and average number of persons per room.

The information available in the Assessor's Office and Reclassification Office was also reviewed. Assessment figures were available for individual parcels and for the entire school district (Great Falls plus approximately three miles into the County). No breakdown is available by block or subdivision. Also, a few years ago, assessment procedures were changed, making comparisons on a parcel basis very difficult. Overall assessments as given in the report Economic Impact of the Growth of 10th Avenue South Upon the Economy of Great Falls, Montana, 1940-1964, are reviewed in the appendix. Other pertinent Census information follows:

AGE DISTRIBUTION, 1950 & 1960 - CASCADE COUNTY

	1950	1960	1950-1960 Change	Percent
All Ages	53,027	73,418	20,391	38%
0-5	6,342	10,221	3,879	61%
5-9	4,617	8,293	3,676	80%
10-14	3,600	6,745	3,145	87%
15-19	3,357	4,980	1,623	48%
20-24	4,229	5,673	1,444	34%
25-29	4,602	5,396	794	17%
30-34	4,502	4,950	448	10%
35-39	4,059	4,903	844	21%
40-44	3,410	4,627	1,217	36%
45-49	2,752	4,040	1,288	47%
50-54	2,541	3,142	601	24%
55-59	2,485	2,583	98	4%
60-64	2,321	2,185	-136	-6%
65-69	1,884	2,051	167	9%
70-74	1,084	1,765	681	63%
75-84	1,044	1,601	557	53%
85+	198	263	65	33%

Source: U. S. Census Data

POPULATION, HOUSEHOLDS, RACIAL CHARACTERISTICS FOR GREAT FALLS - 1950 & 1960

	1950 Great Falls <u>Urban Place</u>	1960 Great Falls <u>Urban Place</u>	1960 Great Falls SMSA
Total Population	39,214	55,357	73,418
Households	12,202	17,613	22,187
Population in Households	36,856	54,584	71,103
Population Per Household	3.02	3.10	3.20
In Group Quarters	2,358	773	2,315
Male	19,589	27,419	37,444
White Negro Other	19,404 78 107	26,974 168 277	36,609 334 501
Female	19,625	27,938	35,974
White Negro Other	19,457 75 93	27,457 197 119	35,250 183 541

Source: U. S. Census Data

INCOME OF FAMILIES, GREAT FALLS URBAN PLACE

	1950	1960	Growth	Percent
All Families	10,435	14,090	3,655	3 5%
Under \$1,000	680	340	-	_
\$1,000 - \$1,999	625	667	42	can
\$2,000 - \$2,999	1,500	913	-	-
\$3,000 - \$3,999	2,465	1,179	-	
\$4,000 - \$4,999	1,820	1,555	=	=
\$5,000 - \$5,999	1,085	1,903	818	7 5%
\$6,000 - \$6,999	550	1,896	1,346	244%
\$7,000 - \$9,999	625	3,487	2,962	473%
\$10,000 and over	500	2,150	1,650	430%
Not reported	585			
Median Income - Families	\$3,835	\$6,257	\$2,422	63%
Median Income - Families & Unre- lated Individuals	\$3,281	\$5,391	\$2,110	64%

Source: U. S. Census Data



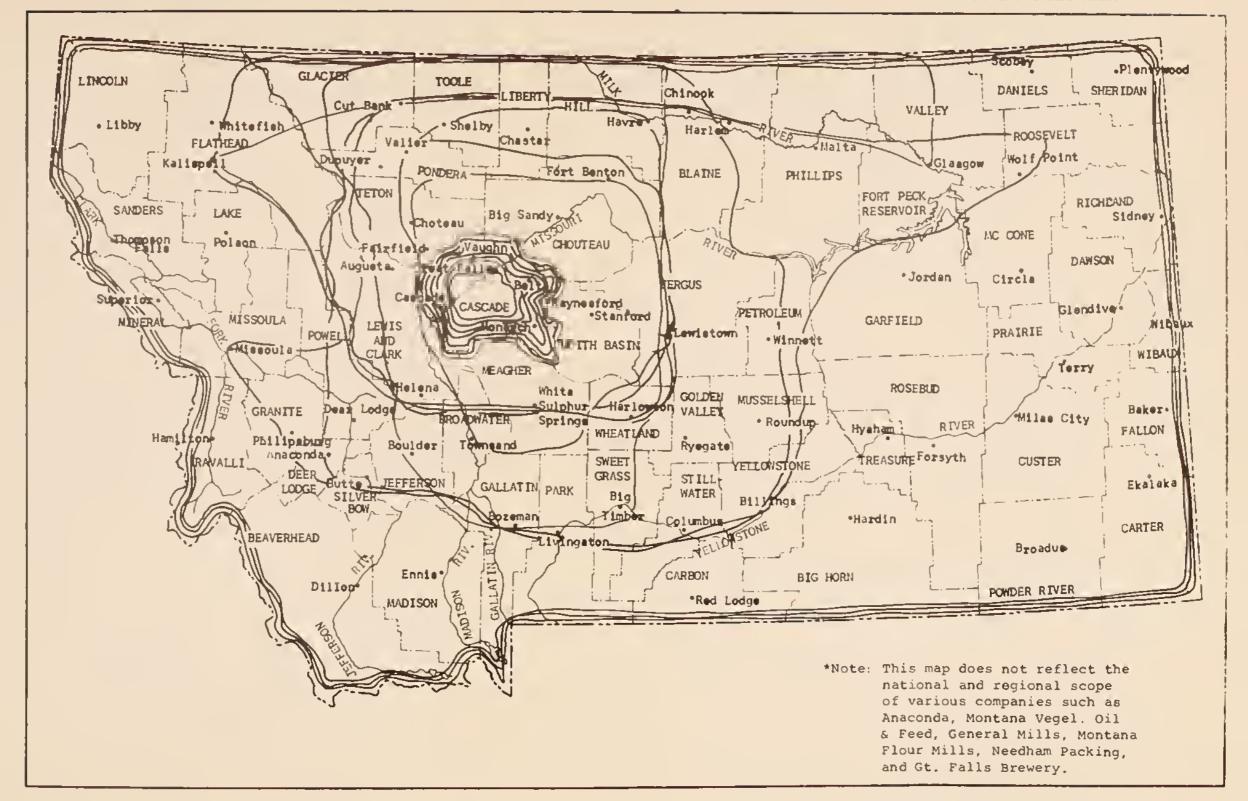
APPENDIX



MANUFACTURING

	FIRM
	ADDRESS
1.	How many employees in Cascade County facilities?
2.	What proportion of sales go outside Cascade County?
3.	What changes in markets (here or elsewhere) are most important to your future operations?
4.	How far out does your sales market extend from Great Falls?
	(Please list the town and circle your trade area on the enclosed
	map) NorthEast
	SouthWest
5.	What are your major purchases, other than labor, that you get locally?
6.	What are your firm's plans or prospects for expansion (or contraction)?
7.	What major factors limit your trade area? (Please check most important)
	Transportation costs Competitor's location
	Transportation time Span of Management control
	Ability to service Company policy
	Personal preference Other
8.	What are the encouraging factors for expansion?
9.	What are the major obstacles to expansion?
10.	Approximately what is your average annual sales volume?
11.	Miscellaneous comments.





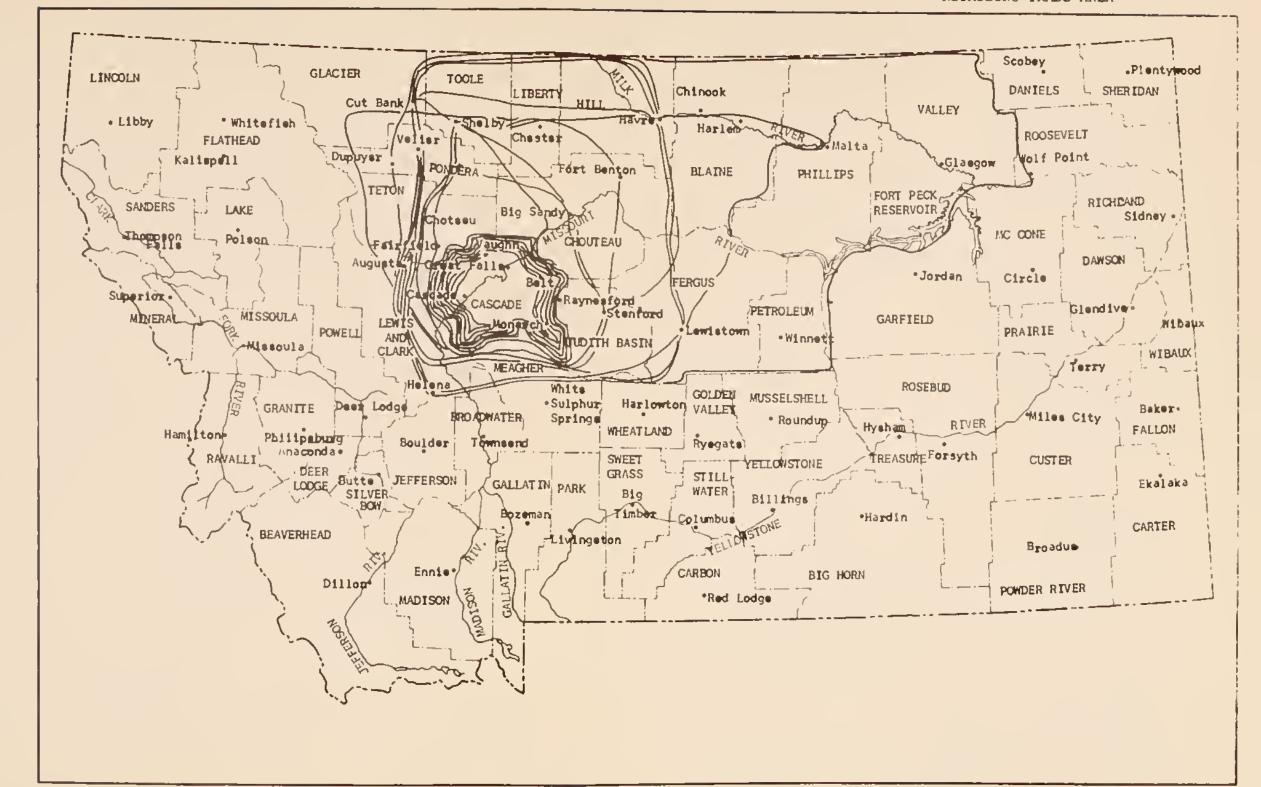


RETAILING

		FIRM
		ADDRESS
l.	What is the extent of the trade	or service area of your business?
	(Please list the town and circle map)	your trade area on the enclosed
	North	East
	South	West
2 。	What proportion of your business	is in Cascade County?
3.	What proportion of your business	is outside Cascade County?
4.	How many employees do you have?	Full time
		Part time
5。	What has been your sales trend or	ver the past 5 years?
5.	Approximately what did you gross	last year?
7 .	What are the major problems you	are now facing?
З.	What volume do you expect to do	5 or 10 years hence?
9.	Are there any factors, economic of fect your business?	or otherwise, that you feel af-

10. Miscellaneous comments.



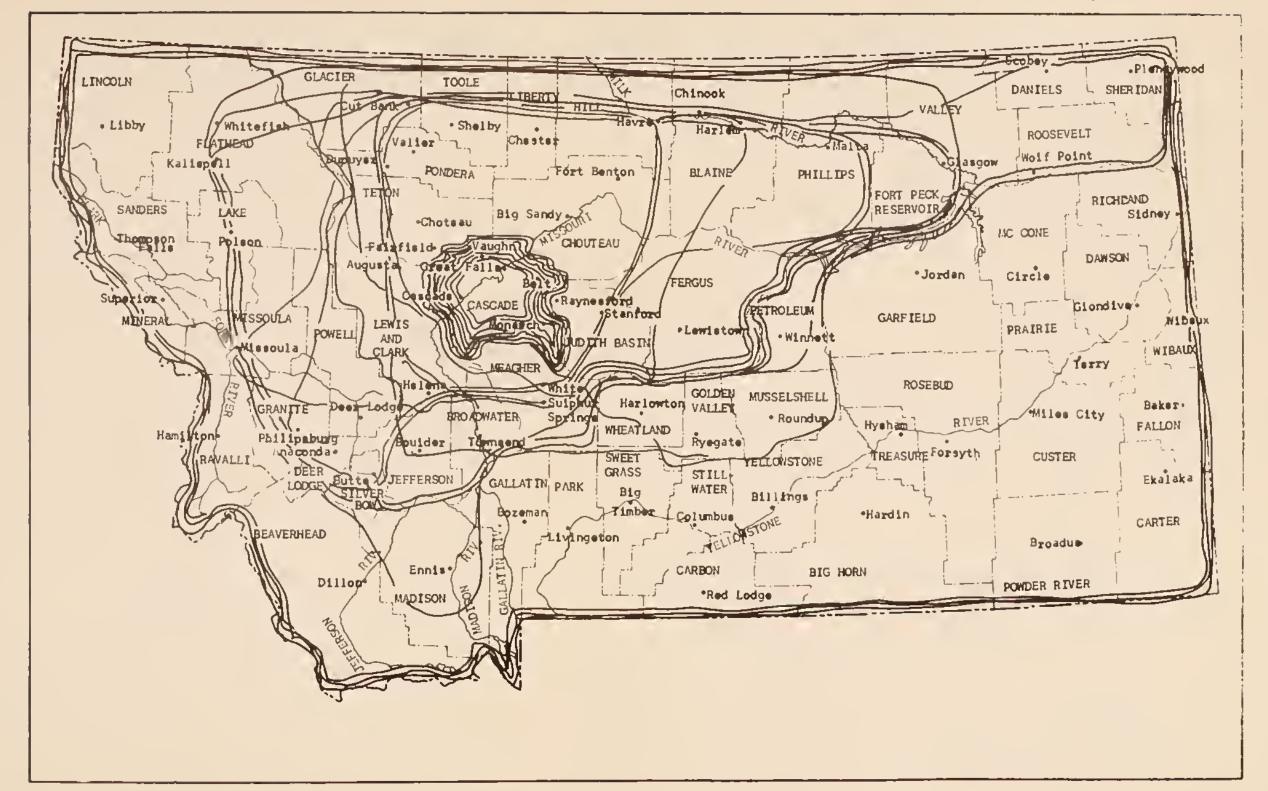




WHOLESALING

	F'IKM
	ADDRESS
1.	How many employees in Cascade County facilities?
2.	What proportion of sales go outside Cascade County?
3.	What changes in markets (here or elsewhere) are most important to your future operations?
4.	How far out does your sales market extend from Great Falls? (Please list the town and circle your trade area on the enclosed map)
	NorthEast
	SouthWest
5.	What are your major purchases, other than labor, that you get locally?
6.	What are your firm's plans or prospects for expansion (or contraction)?
7.	What major factors limit your trade area? (Please check most important)
	Transportation costs Competitor's location
	Transportation time Span of Management control
	Ability to service Company policy
	Personal preference Other
8.	What are the encouraging factors for expansion?
9.	What are the major obstacles to expansion?
10.	Approximately what is your average annual sales volume?
11.	Miscellaneous comments.





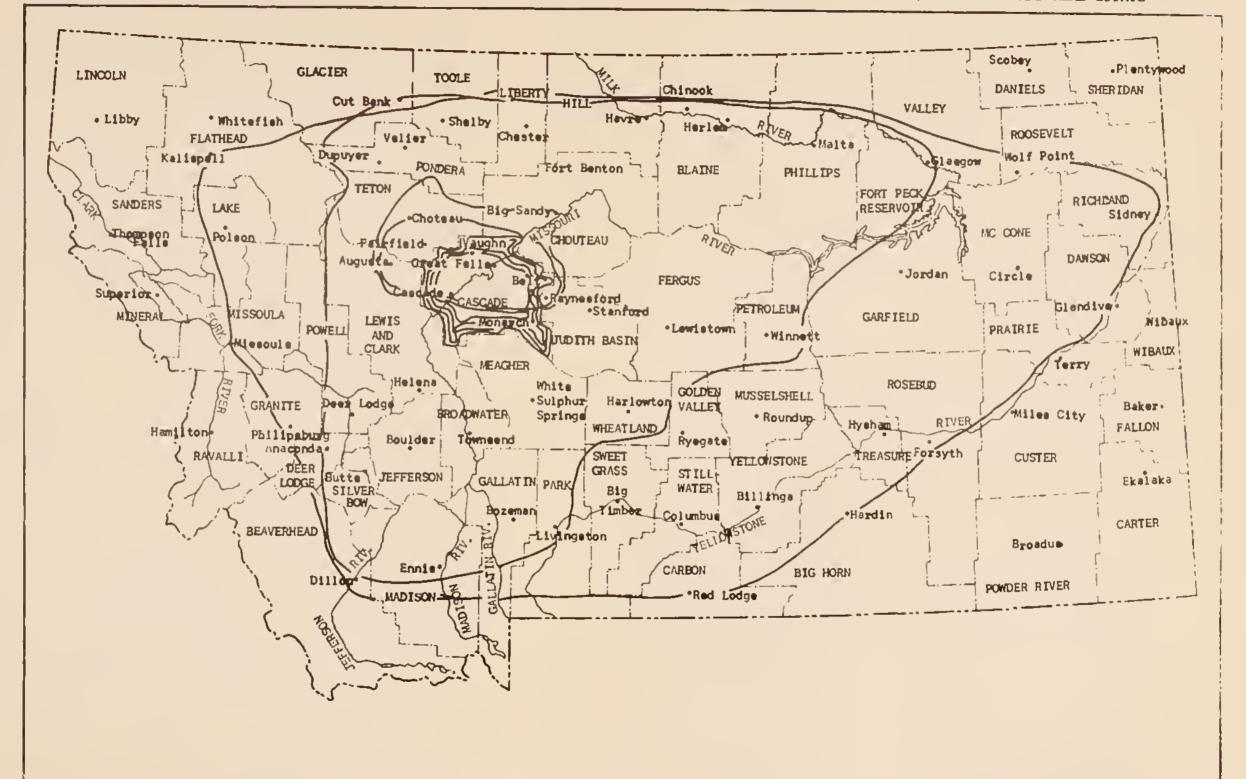


FINANCE, INSURANCE, REAL ESTATE

	FIRM
	ADDRESS
1.	What is the extent of the trade or service area of your business?
	(Please list the town and circle your trade area on the enclosed map)
	NorthEast
	SouthWest
2.	What proportion of your business is in Cascade County?
3.	What proportion of your business is outside Cascade County?
1.	How many employees do you have? Full time
	Part time
5.	What has been your sales trend over the past 5 years?
6.	Approximately what did your firm gross last year?
7.	What are the major problems you are now facing?
8.	What volume do you expect to do 5 or 10 years hence?
9.	Are there any factors, economic or otherwise, that you feel affect your business?

10. Miscellaneous comments.







(thousands of dollars)

Assessed Valuation in Cascade County By Classes of Property By Selected Years, 1940-1964

Year	Total	Land and Improvements	Public Utilities	Personal Property	Livestock	Net Proceeds of Mines
1940	\$ 94,859	\$ 48,677	\$24,825	\$19,757	\$1,502	\$97
1945	94,121	47,302	24,966	18,688	3,068	97
1950	134,029	55,122	26,473	49,372	3,018	45
1955	170,041	72,040	28,506	65,084	4,410	1
1960	220,719	105,047	33,086	79,142	3,442	<u>a</u> /
1964	248,910	123,040	38,299	83,924	3,646	<u>a</u> /

a/ Less than \$500.

(thousands of dollars)

Assessed Valuation in City of Great Falls by Classes of Property By Selected Years, 1940-1964 Land and Public

Year	Total	Land and Improvements <u>a</u> /	Public Utilities <u>b</u> /	Personal Property
1940	\$ 44,714	\$ 36,974	\$1,611	\$ 6,129
1945	42,328	35,229	1,505	5,594
1950	71,934	55,764	1,759	14,411
1955	96,342	69,367	2,454	24,521
1960	139,251	103,102	2,281	33,869
1964	161,153	121,633	5,388	34,131

a/ Includes Public Utilities assessed by the County Assessor.

(thousands of dollars)

Real Property* Relationship of Cascade County and City of Great Falls By Selected Years, 1940-1964 Cascade City of % City County Great Falls Of County Year \$ 73,502 \$ 38,585 1940 52% 1945 72,268 36,734 51% 1950 81,595 57,523 70% 100,546 1955 71,821 71% 1960 138,133 105,383 76% 1964 161,339 127,021 79%

Above tables taken from Economic Impact of the Growth of Tenth Avenue South Upon the Economy of Great Falls, Montana, 1940-1964.

b/ Public Utilities assessment allocated by the State Board of Equalization.

^{*} Land and Improvements, and Public Utilities

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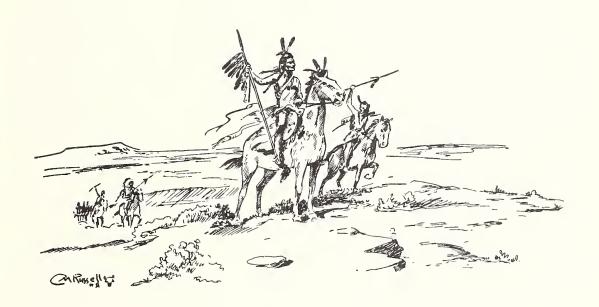
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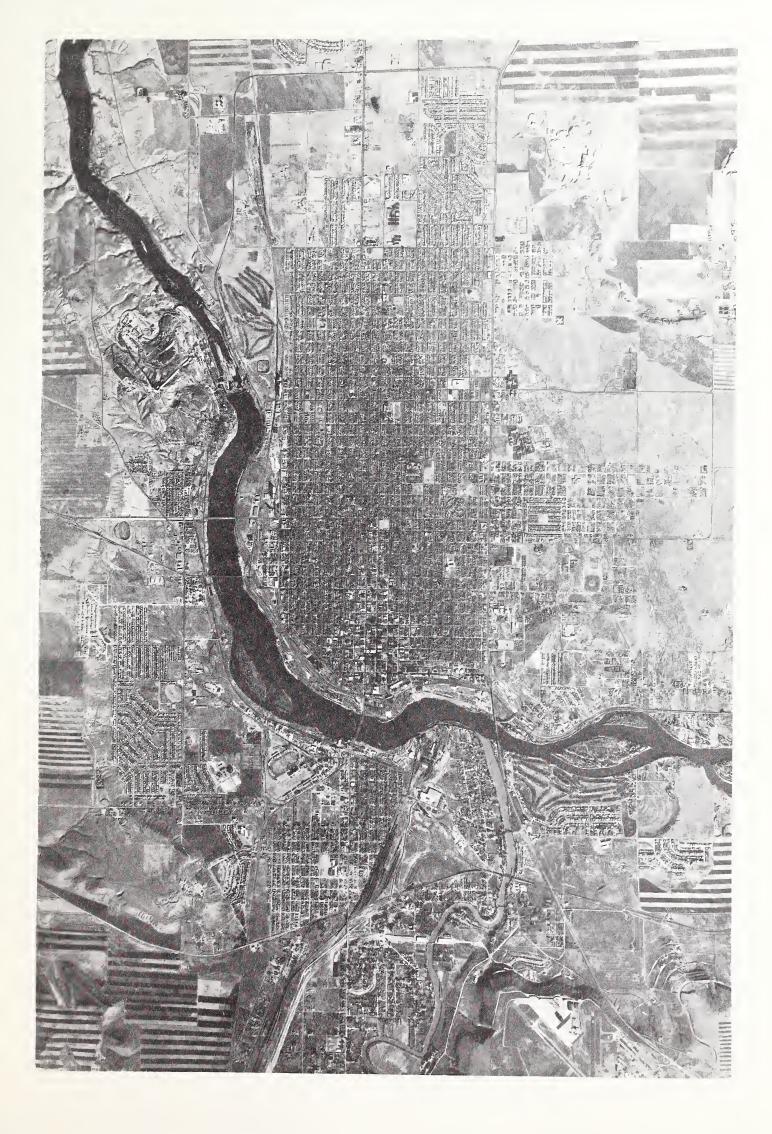
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LAND USE STUDY



THE GREAT FALLS CITY — COUNTY PLANNING BOARD
AND
THE MONTANA STATE HIGHWAY COMMISSION
PLANNING SURVEY DIVISION
IN COOPERATION WITH
THE U.S. DEPARTMENT OF COMMERCE
BUREAU OF PUBLIC ROADS





INTRODUCTION

This Land Use Study is a continuation of the Cooperative Transportation Planning Process described in the Introduction to the Economic Study. The purpose of this study is to translate the Economic and Population Studies and Projections into Land Use, and to develop a Land Use Plan for transportation planning and other purposes.

The "base year" for this study is 1964, the date of the complete parcel-by-parcel land use survey by the City-County Planning Board staff. Projections are made in five-year stages, to 1969, 1974, 1979, and the "target year," 1981.

This work has been a cooperative project, utilizing the efforts and knowledge of the City-County Planning Board staff, a number of departments of the City of Great Falls and Cascade County, the Planning Survey Division of the Montana State Highway Commission, a number of other organizations and individuals, and the consultant, Small, Cooley and Associates.

This Land Use Plan was developed with full consideration of other necessary factors of community growth - roadways, utilities, community facilities such as schools, parks and recreational facilities, physical factors, and trends of development. The information gathered in the economic survey interviews was also of great assistance.

Probably the single most important recommendation with regard to this Land Use Plan is that it be kept up to date. No plan can be considered perfect or fixed. It should always reflect the current thinking of City, County and State agencies concerned with the development of Great Falls, as well as the School District, private industry, developers, and many others. In summary, the Land Use Plan should become a "working tool" that is always available for reference and use. This procedure will greatly facilitate the overall updating and review procedures at five-year periods in the Transportation Study process.

As time goes by, new and improved techniques will become available in transportation planning and land use planning. These should be incorporated wherever possible. Finally, the spirit of cooperation in the planning process that is presently evident among City, County, State and other agencies must be continued and improved wherever possible.

I

LAND USE SURVEY DATA

as of September, 1964

GREAT FALLS TRANSPORTATION STUDY

LAND USE SURVEY AND INVENTORY

* * * * * * * * *

METHODS USED FOR THE LAND USE SURVEY AND INVENTORY

Compilation of up-to-date land use information on a parcel basis was begun in May, 1964. The existing Great Falls City-County Planning Board Neighborhood Unit Maps were utilized. The 1958 land use maps were up-dated to existing conditions as of July, 1965. All land use information was field validated by personnel from the City-County Planning Board. The survey was made using a Land Use Code which was approved by the Montana State Highway Department and the Bureau of Public Roads.

Following the completion of the Land Use Survey the Land Use Inventory was performed. The information was compiled by O-D Zones, Neighborhood Units, and for the entire Study Area. The Cordon and District boundaries, as established in the 1961 survey, were also used. Working from data on the Neighborhood Unit Land Use Maps, land areas by land usage were computed. The floor and parking areas were obtained from the records of the County Reclassification Office, Sanborn Maps and/or aerial photographs. Tabulation of the land, floor and parking areas was done on "Land Use" sheets.

The computation of areas for each zone was done in the following manner:

- 1) For zones with boundary lines in the rivers, water area was not counted or used in total or net areas for the zones. The tally sheet for the 100 zones does not include river area.
- 2) Land Areas were taken from plats where available, or scaled from the 1" = 300' Neighborhood Unit Land Use Maps.
 - DISTRICT: One of the 24 O-D Zone Districts is given.
 - ZONE: One of the 100 O-D Zones as established by the Highway Department.
 - TOTAL AREA: This is the total area within the zone boundary line.
 - NET AREA: This is the total area minus the developed street and alley right-of-way area.

- 3) The residential land area is the total area of all lots and tracts of land as colored on the maps.
- 4) All Floor Areas were taken from County Reclassification Office records, Sanborn Maps or aerial photos.
- 5) Only the part of Malmstrom Air Force Base Land Area which falls within the study area was included in Zone 7801.
- 6) All alley and street areas are right-of-way areas.
- 7) A Mixed Use category was initiated for usage where there was more than one use in the same building. This category was used in Zones 7306, 7308, 7310 and 7414.
- 8) One-Family Housing Units include all single-family structures and separate house trailers on lots. The other residential categories are self-explanatory. See the Land Use Code for a complete listing of residential categories.

The Commercial category has the six separate categories, plus parking lots. The Land Use Code gives a description of the land uses under each category. Intensive Business also included restaurants, drive-in restaurants and recreational facilities. General Business also included all commercial uses which would not be in the other six categories.

The Industrial categories are (a) Light Industry, non-manufacturing; (b) Heavy Industry, manufacturing; and (c) Railroads and Public Utilities. Only railroad right-of-way was tabulated on the Land Use sheets.

The Public categories are self-explanatory. The Public School land use was put under the Public Buildings category. The Church and Semi-Public categories are self-explanatory.

The Vacant Land category lists all vacant land within the City Limits and County which is within the study area. Vacant land in the County is in the "Not Zoned" category. Vacant Land within the City Limits is under the "Zoned" category. Undeveloped streets, alleys and parks have also been listed in the Vacant Land category.

The Rights-of-Way category gives only the area of developed streets and alleys. These figures are right-of-way areas in acreage.

The Mixed Use category lists usages of different types in the same building.

Following the tabulation of each of the 100 separate zone sheets, a total summary sheet was made for the 100 Zones (24 Districts). The total area and net area on each zone were computed by adding the acreage for all usages in the zone. The total area, net area, square footages, etc., for the whole study area of 100 zones were arrived at by using square footages.

The tally sheet, computed by square footage rather than acreage, gives the following acreages:

TOTAL AREA	NET AREA	RIGHT-OF-WAY AREA
20,424.83 Acres	17,705.45 Acres	2,719.38 Acres

The difference of 3.35 acres is due to rounding off square footage to acreage.

SUMMARY SHEET FOR 1964 LAND USE INVENTORY

(Great Falls Study Area Land Use As Of September 1964)

TOTAL LAND USE INVENTORY FOR 24 DISTRICTS OR 100 ZONES IN THE STUDY AREA. (SEE MONTANA STATE HIGHWAY COMMISSION URBAN TRANS-PORTATION SURVEY OF GREAT FALLS, MONTANA - VOLUME II - 1961, FOR BREAKDOWN OF ZONES, DISTRICTS AND CORDON BOUNDARY OF STUDY AREA.)

* * * * * * * * * * * * * * *

LAND USE

24 Districts A through X

DISTRICT	AT DISCLICES A CHILOUGH A
BLOCK NO.	All Blocks and Parcels of Land
ZONE	100 Zones - 6101 through 8202
TOTAL AREA	20,424.83 Acres
NET AREA	17,705.45 Acres
RIGHT-OF-WAY AREA	2,719.38 Acres
1	DWELLING

DISTRICT

1.	RESIDEN	NTIA	<u>L</u> :1		DWELLING UNITS	AREA (ACRES)
	Number	of	(a)	One-Family Housing Units	13,502	2,960.37
			(d)	Two-Family Housing Units	2,276	331.13
			(c)	Three or More Family Units	4,500	137.07
			(d)	Motel Units	780	27.77
			(e)	Trailer Court Units	644	68.04
	(f) Ho		(f)	Hotel Units	401	1.12
				Sub-total	20,802	3,525.50

¹ The dwelling unit numbers include Malmstrom Air Force Base on-base and off-base housing units. The land area does not include the on-base housing areas. The land area does include Malmstrom off-base (Off-base Wherry and Off-base Capehart) housing.

2. COMMERCIAL:	LAND AR	LAND AREA FLOOR AREA		PARKING AREA		
	Sq. Ft.	Acres	Sq. Ft.	Acres	Sq. Ft.	Acres
Local Business	467,069	10.72	154,621	3.55	50,270	1.15
Intensive Business ²	7,197,346	165.23	688,641	15.81	3,046,352	69.94
General Business ³	5,554,187	127.50	1,523,230	34.97	1,061,048	24.36
Shopping Centers	1,450,694	33.30	422,659	9.70	664,957	15.27
Department Stores	45,000	1.03	132,355	3.04	1,500	.03
Offices and Banks	777,782	17.86	398,544	9.15	291,179	6.68
Parking Lots ⁴	228,875	5.26	0	0	228,875	5.26
Sub-total	15,720,953	360.90	3,320,050	76.22	5,344,181	122.69

² The Intensive Business breakdown includes the Malmstrom A.F.B. BX Gasoline Station.

⁴ The Parking Lot category is composed primarily of municipal parking lots.

3. <u>INDUSTRIAL</u> :	LAND AREA		FLOOR	AREA	PARKING AREA		
	Sq. Ft.	Acres	Sq. Ft.	Acres	Sq. Ft.	Acres	
Light Industry Heavy Industry Railroads and	16,966,533 33,655,016	389.50 772.61	3,133,686 1,513,006		2,332,950 1,039,593		
Public Utilities	28,576,436	656.02	334,403	7.68	63,250	1.45	
Sub-total	79,197,985	1,818.13	4,981,095	114.35	3,435,793	78.87	
4. PUBLIC:	LAND A	REA	FLOOR	AREA	PARKING	AREA	
4. PUBLIC:	LAND A	REA Acres	FLOOR Sq. Ft.	AREA Acres	PARKING Sq. Ft.	AREA Acres	
4. PUBLIC: Parks							
Connecting Service Services	Sq. Ft.	Acres					
Parks	Sq. Ft. 19,666,404	<u>Acres</u> 451.48					

⁵ Complete data on Floor Area and Parking Area was not available. It is listed partially on some Zone Sheets.

⁶ Exclusive of Commercial Land Area as noted above. This is the part of Malmstrom A.F.B. within the study cordon line only.

5. CHURCHES:	LAND A	REA
	Sq. Ft.	Acres
	1,788,700	41.06
Sub-total	1,788,700	41.06

³ The General Business breakdown includes the Malmstrom A.F.B. Commissary and BX.

6. SEMI-PUBLIC BUILDINGS AND INSTITUTIONS: LAND AREA FLOOR AREA						AREA
	Sq. Ft.	Acres	Sq. Ft.	Acres	Sq. Ft.	Acres
Cemeteries Lodge Halls Fraternal Organizations Hospitals Convalescent Homes Private Schools Country Club Boat Club Salvation Army Orphan's Home Union Hall	1,800,750 38,458 130,215 576,400 203,440 3,364,213 5,577,768 98,100 7,500 580,000 54,000	41.34 .88 2.99 13.23 4.67 77.23 128.05 2.25 .17 13.32 1.24	45,910 12,935 173,199 532,950 63,710 240,012 30,000 1,800 4,900 109,600 6,824	1.05 .30 3.97 12.23 1.46 5.51 .69 .04 .11 2.52	8,000 10,000 6,900 105,940 19,769 151,600 80,000 10,000 2,600 0	.18 .23 .16 2.43 .45 3.48 1.84 .23 .06 0
Sub-total	12,430,844	285.37	1,221,840	28.04	423,384	9.72
7. VACANT LAND: NOT ZONI	<u>ED</u>		Sq.	<u> </u>	<u>R E A</u>	cres
Not zoned (area outside Vacant streets (abandone Vacant alleys (abandone Vacant parks (undevelope Vacant cemetery (undevel	ed or undev d or undeve ed)	eloped)	4,2 5 6,6	03,184 48,144 12,050 11,355 93,150	1	44.88 97.52 11.76 51.78 35.29
ZONING			380,7	67,883	8,7	41.23
Area A A A B A LB A SUB B A B B C B C C C C C C C C C C C C C	imited		9,9 1,4 8 1 1,9 7	25,451 31,068 15,750 83,163 12,438 16,280 15,625 88,354 41,000 95,000 61,671 30,000 77,208 18,185 71,952 03,585	2	25.28 9.90 .36 29.18 32.43 18.74 .36 4.32 .94 4.48 45.04 .69 17.84 9.60 47.56 16.15
D 1ST	Ind.		_11,4	88,125	2	63.73

Sub-total

429,842,738 9,867.83

8. <u>RIGHTS-OF-WAY:</u>				R E A Acres		
Streets Alleys Private Road			2	,550.53 166.58 2.27		
Sub-total			2	,719.38		
9. MIXED USE:	LAND Sq. Ft.	AREA Acres	FLOOR A	AREA Acres	PARKING Sq. Ft.	
LAND USE CLASSIFICATION & NO. OF ESTABLISHMENTS		ACLES	pd. I.c.	ACTOS	by. It.	Acres
GB/LI/MDU 4 Estab.	15,000	.35	8,620	.20	9,780	.22
GB/OFF 18 Estab.	71,250	1.64	155,297	3.57	21,719	.50
GB/OFF/MDU 3 Estab.	7,500	.17	24,800	. 57		
GB/IB/OFF/SP 13 Estab.	32,280	.74	48,947	1.12	8,623	.20
LI/HOTEL 2 Estab.	3,750	.09	6,125	.14	250	.01
GB/HOTEL 14 Estab.	85,500	1.96	182,048	4.18	8,350	.19
GB/1-FDU 2 Estab1 D.U.	7,500	.17	14,500	.33		
GB/IB/OFF/SP/VAC 5 Estab.	15,000	.35	45,000	1.03		
IB/GB 10 Estab.	56,250	1.29	38,162	.88	20,755	.48
GB/IB/MDU 9 Estab.	22,500	.52	36,700	.84	3,940	.09
IB/GB/OFF 6 Estab.	22,500	. 52	66,410	1.52	1,090	.03
GB/OFF/VAC 6 Estab.	26,250	.60	81,030	1.86		

9. MIXED USE: (Continued) S LAND USE CLASSIFICATION NO. OF ESTABLISHMENTS	LAND G. Ft.		FLOOR A		PARKING Sq. Ft.	AREA Acres
GB/MDU 10 Estab.	31,250	.72	56,335	1.29	4,000	.09
GB/IB/HOTEL 9 Estab.	19,950	.46	59,850	1.37		
GB/IB/OFF/HOTEL 4 Estab.	15,000	.35	54,570	1.25		
DS/OFF 2 Estab.	11,250	.26	78,750	1.81		
GB/IB/OFF/VAC 3 Estab.	15,000	.35	13,750	.32	2,500	.06
GB/LI/OFF 3 Estab.	7,500	.17	6,850	.16		
IB/VAC l Estab.	6,375	.14	15,375	.35		
GB/VAC 6 Estab.	58,750	1.35	87,761	2.02	12,814	.30
MDU/VAC l Estab.	11,250	.26	17,700	.41	1,050	.02
GB/IB/OFF/SP/HOTEL 5 Estab.	22,500	.52	79,847	1.83		
GB/IB/OFF/HTL/LI/VAC 6 Estab.	15,000	.35	42,190	. 97		
GB/SP/HOTEL 3 Estab.	11,250	.26	18,450	.42	1,875	.04
IB/OFF 2 Estab.	3,750	.08	3,950	.09	850	.02
IB/HOTEL/VAC 3 Estab.	7,500	.17	22,500	.52		
GB/OFF/MDU/CHURCH/VAC 3 Estab 9 D.U.	7,500	.17	12,500	.29		

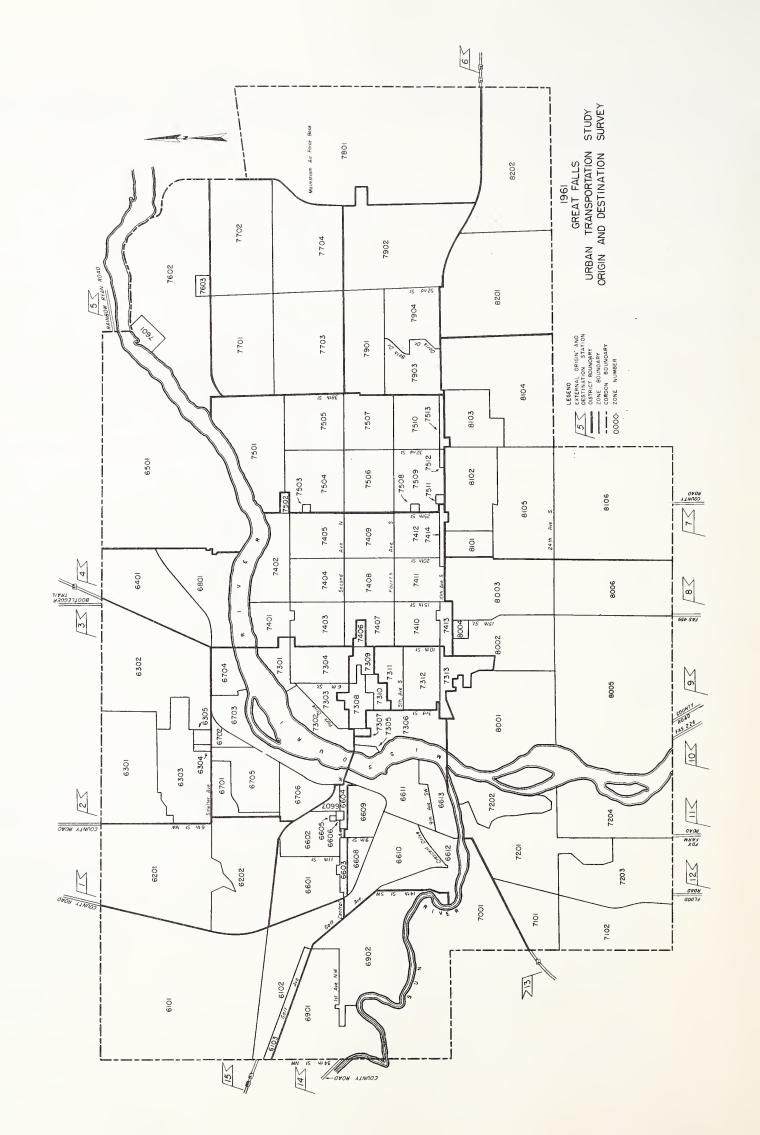
9. MIXED USE:	(Continued) <u>LAND</u> Sq. Ft.	AREA Acres	FLOOR Z		PARKING Sq. Ft.	AREA Acres
LAND USE CLASS: & NO. OF ESTABL	IFICATION		200			and the second
GB/IB/OFF/MI 3 Estab.	DU 15,000	.35	21,820	.50	4,090	.09
IB/LI 2 Estab.	3,150	.07	6,300	.14		
IB/HOTEL 5 Estab.	10,000	.23	14,340	.33	3,650	.08
IB/HOTEL/SP		.26				
3 Estab. GB/HOTEL/VAG			23,645		2,250	.05
3 Estab. GB/LI	7,500	.17	22,500	. 52		
2 Estab.	3,750	.08	5,122	.12	875	.02
IB/GB/VAC 3 Estab.	7,500	.17	8,579	.20	1,100	.03
GB/LI/HOTEL 3 Estab.	7,500	.17	15,980	.37	1,000	.02
HOTEL/SP 2 Estab.	4,500	.10	10,800	.25	900	.02
LB/GB/HOTEL, 4 Estab.	/VAC 7,500	.17	15,000	.34		
GB/LI/VAC 3 Estab.	8,250	.18	7,375	.17	875	.02
GB/RR/PU 3 Estab.	25,000	.57	25,000	. 58		
OFF/MDU 3 Estab6 :	D.U. 3,012	.07	4,562	.10		
IB/LI/SP 3 Estab.	7,500	.17	20,150	.46		
GB/IB/LI/HO 5 Estab.	TEL 7,500	.17	22,500	. 52		

9. MIXED USE: (Continu	ied) <u>LAND</u> A	AREA	FLOOR A	AREA	PARKING	AREA
	Sq. Ft.	Acres	Sq. Ft.	Acres	Sq. Ft.	Acres
LAND USE CLASSIFICATION	N					
& NO. OF ESTABLISHMEN!	rs					
MDU/HOTEL						
2 Estab.	7,500		15,000	.34		
Sub-total	745,517	17.11 1	L,516,690	34.82	112,336	2.58

KEY TO ABBREVIATIONS

- 1. GB General Business
- 2. IB Intensive Business
- 3. OFF Offices and Banks
- 4. DS Department Stores
- 5. HTL Hotels
- 6. SP Semi-Public

- 7. l-FDU One-family dwelling unit
- 8. MDU Multiple Dwelling Unit
- 9. LI Light Industry
- 10. VAC Vacant
- 11. LB Local Business
- 12. RR & PU Railroads and Public Utilities



GREAT FALLS CITY-COUNTY PLANNING BOARD

SUMMARY FIGURES FOR SEPTEMBER 1964 LAND USE INVENTORY - FOR 100 0-D ZONES

AREA IN ACRES

					103		
				521.0 13.3	216.8 16.7 10.5 3.4 .8 6.3 1.3	286.0	238.8 76.2 3.8 80.0
	VACANT LAND	1,136.1 (All Not Zoned) *Agricultural* I*	160.7 (All Not Zoned) *Industrial*	534.3 (Total) *Agricultural* Undev. Sts. & Alleys	255.8 (Total) Not Zoned (In County) *Agricultural* Zoned (In City) Area Use A A B A C C C D GC Parks	297.0 (Total) Not Zoned (In County) *Residential* Zoned (In City) Undev. Sts. & Alleys	318.8 (Total) Not Zoned (In County) *Residential* Zoned (In City) Area Use A A C C
	MIXED	0	0	0	0	0	0
	PUBLIC R.O.W.	12.9	25.1	4.2	32.8	26.9	76.8
ı	SEMI-PUBLIC	0	0	0	0	0	0
 	CHURCHES	0	0	2.1	5.4	0	6.3
l l	PUBLIC	0	0	0	9.	4.8	23.6
l l	INDUSTRIAL	17.0	90.4	0	89 .3	0	10.5
	COMMERCIAL	0	7.1	0	2 . 4	0	6.4
	RESIDENTIAL	0	20.7	11.4	71.6	11.3	99.1
	NET	1,153.1	278.9	547.8	351.2	313.1	463.2
	TOTAL	1,166.0	304.0	552.0	384.0	340.0	540.0
	O-D ZONE	6101	6102	6201	6202	6301	6302

AREA IN ACRES

VACANT LAND	3.1 (All Zoned A Area, A Use)	2.3 (All Zoned D Area, GC Use)	0	269.3 (All Not Zoned) *Agricultural*	544.6 (All Not Zoned) *Agricultural*	50.7 (Total) Not Zoned (In County) *Industrial* Zoned (In City) A A A 8.0 B A 8.6 C LB 8.6 C LB 8.6 D GC 1.4 D GC 1.4 D LB 2.9 Undev. Park 2.99	23.2 (Total) <u>Zoned (In City)</u> <u>Area Use</u> A B 3.6 B B 2.5 D LB 6.0 D GC 11.1	3.9 (All Zoned D Area, LB Use)	.1 (All Zoned D Area, LB Use)
MIXED	0	0	0	0	0	0	0	0	0
PUBLIC CHURCHES SEMI-PUBLIC PUBLIC R.O.W.	65.7	1.2	4.	20.0	18.9	62.6	39.7	10.0	7.2
SEMI-PUBLIC	0	0	0	0	0	•	•	0	0
CHURCHES	₹.	0	0	0	0	e.	e,	0	e.
PUBLIC	17.9	0	0	0	0	11.0	9.5	0	0
INDUSTRIAL	1.1	0	0	16.1	533.9	9.6	3.4	2.6	2.0
RESIDENTIAL COMMERCIAL INDUSTRIAL	۲.	3.4	12.3	16.1	0	6.	o.	4.0	8.4
RESIDENTIAL	161.1	0	0	2.5	2.6	6.89	50.3	3.6	2.3
NET	184.2	5.7	12.3	304.0	1,081.1	137.4	87.0	14.1	9.5
TOTAL	249.9	6.9	12.7	324.0	1,190.0	200.0	126.7	24.1	16.7
0-D ZONE	6303	6304	6305	6401	6501	6601	6602	6603	9099

AREA IN ACRES

			2.7	3.2	.4 1.2 .1	e a		3.5	es S
VACANT LAND	0	0	4.4 (Total) Zoned (In City) Area Use GC D GC D 1 St Ind	$\begin{array}{ccc} 7.5 & (Total) \\ \hline Zoned & (In City) \\ \hline Area & Use \\ C & B \\ D & 1 St Ind \\ \end{array}$	$\begin{array}{ccc} 1.7 & (Total) \\ \hline Zoned & (In City) \\ \hline Area & Use \\ B & C \\ D & 1 St Ind \\ D & LB \end{array}$	125.3 (All Zoned D Area, 1 St Ind Use)	0	9.6 (Total) Not Zoned (In County) *Residential* Zoned (In City) Area Use A Sub B B	7.4 (All Zoned A Area, Sub Use)
MIXED	0	0	0	0	0	0	0	0	0
SEMI-PUBLIC PUBLIC R.O.W.	ະຸ	1.4	7.7	18.2	37.7	5.4	5.8	12.0	4.8
SEMI-PUBLIC	0	0	0	0	e,	0	0	0	0
CHURCHES	0	0	0	0	7.	0	0	0	ئ.
PUBLIC	0	0	0	0	4.6	0	0	0	1.2
INDUSTRIAL	0	7.	9.9	ī.	9.	9°66	140.2	و.	0
RESIDENTIAL COMMERCIAL INDUSTRIAL	1.0	1.6	0	٥.		0	.5	. 2	0
RESIDENTIAL	0	0	2.3	18.4	44.5	0	25.5	87.8	68.3
NET	1.0	2.0	13.3	26.6	52.9	224.9	166.2	107.1	77.4
TOTAL	1.3	3.4	17.7	44.8	9.06	230.3	172.0	119.1	85.8
O-D ZONE	6605	9099	6607	8099	6099	6610	6611	6612	6613

R E S ပ ۷١ zi H AREA

			100				
	7.8	ea,	40.6 32.6 1.8	37.7	92.6		98.9
VACANT LAND	$\begin{array}{ccc} 4.6 & (Total) \\ \underline{Zoned} & (In \ City) \\ \underline{Area} & \underline{Use} \\ A & A \\ Vacant \ Streets \end{array}$	4.3 (All Zoned B Area, GC Use)	75.3 (Total) Not Zoned (In County) *Industrial* Zoned (In City) Area Use D 1 St Ind Vacant Streets Vacant Parks	37.7 (All Not Zoned) *Industrial*	97.2 (Total) Not Zoned (In County) *Residential* Zoned (In City) Vacant Streets	0	101.0 (Total) Not Zoned (In County) *Residential* Zoned (In City) Vacant Streets Vacant Alleys
MIXED	0	0	0	0	0	0	0
PUBLIC CHURCHES SEMI-PUBLIC PUBLIC R.O.W.	10.0	4.7	6.6	3.4	4.1	3.2	39.3
SEMI-PUBLIC	0	0	0	0	0	0	0
CHURCHES	0	0	0	0	0	0	6.9
	14.0	0	0	0	35.0	102.0	1.1
RESIDENTIAL COMMERCIAL INDUSTRIAL	m,	14.0	59.5	30°6	35.6	4.3	16.9
COMMERCIAL	0	5.4	4.3	0	.1	0	2.7
RESIDENTIAL	33.0	0	3.0	0	0	0	46.1
NET	51.9	23.7	142.1	9.89	167.9	106.3	172.7
TOTAL	61.9	28.4	152.0	72.0	172.0	109.5	212.0
O-D ZONE	6701	6702	6703	6704	6705	9029	6801

AREA IN ACRES

			107	
	132.1	16.6 80.6 2.5 1.0	398.9 18.3 6.3 71.9 8.4 7.9 14.1	100.8 8.7 1.4
VACANT LAND	137.3 (Total) Not Zoned (In County) *Residential* Zoned (In City) Vacant Streets	100.7 (Total) Not Zoned (In County) *Residential* Zoned (In City) Area Use A Sub Undev. Parks Undev. Streets	S29.0 (Total) Not Zoned (In County) *Agricultural* Zoned (In City) Area Use A B A B A Sub C LB Undev. Parks Undev. Alleys	110.9 (Total) Not Zoned (In County) *Residential* Zoned (In City) Undev. Streets Undev. Alleys
MIXED	0	0	0	0
PUBLIC R.O.W.	77.9	92.6	97.6	30.2
SEMI-PUBLIC	5.	0	0	0
PUBLIC CHURCHES	0	۲.	0	0
PUBLIC	د.	2.0	0	1.9
INDUSTRIAL	∞,	5.1	13.2	6.9
1 1	1.2	17.6	7.4	0
RESIDENTIAL COMMERCIAL	146.5	188.1	43.5	2.1
NET	291.6	314.2	590.4	121.8
TOTAL	369.5	409.8	0.888	152.0
0-D ZONE	6901	6902	7001	7101

AREA IN ACRES

	95.5 44.8 11.8 21.6 15.8				ea,	e a ,		e e			ea,		, ea,
VACANT LAND	191.3 (Total) Not Zoned (In County) *Residential* Zoned (In City) Area Use A A C C C C C LB Undev. Streets				(All Zoned C Area, C Use)	(All Zoned C Area, B Use)		(All Zoned D Area, 1 St Ind Use)			(All Zoned C Area, GC Use)		(All Zoned C Area, C Use)
	Not Zoned (In *Residential* Zoned (In Cit; Area Use A A A C C C C C LB Undev. Streets	0	0	0	4.	.2	0	•1	0	0	7.	0	5.
MIXED	0	0	0	0	0	0	0	2.5	0	13,3	0	1.0	0
SEMI-PUBLIC PUBLIC R.O.W. MIXED	63.0	5.7	7.6	80.80	28.6	43.7	1.6	23.8	1.7	24.3	13.9	11.5	29.1
	0	130,3	0	0	7.	1.8	0	0	0	.2	v.	5.	0
PUBLIC CHURCHES	0	0	0	0	က္	3.1	0	0	0	0	0	0	0
PUBLIC	20.4	8.84	6*6	63.0	1.7	1.3	0.6	7.5	5.0	3.8	1.9	5.	0
INDUSTRIAL	7.5	0	36.8	17.2	9.	1.4	0	101.7	0	2.4	1.7	6.3	2.1
RESIDENTIAL COMMERCIAL INDUSTRIAL	2.0	0	1.2	Φ.	4.1	2.4	0	8° 6	0	17.0	12.2	8.3	3.1
RESIDENTIAL	4.88	0	1.2	2.6	34.4	58.4	0	2.6	0	6.	3,1	1.5	38.5
NET	309.6	179.1	49.1	83.6	41.9	68.6	0.6	124.2	5.0	37.6	20.1	18.1	44.2
TOTAL	372.6	184.8	58.8	92.4	70.5	112.3	10.6	148.0	6.7	6.19	34.0	29.6	73.3
O-D ZONE	7201	7202	7301	7302	7303	7304	7305	7306	7307	7308	7309	7310	7311

AREA IN ACRES

	_	1.7	, s	•	· ·	, c	1.4	.	, e	6	
N.	d A Area		ed D Area 1 Use)	ed D Area 1 Use)	ed A Area	ed A Area		ed D Area	ed D Area	ed A Area	
VACANT LAND	(All Zoned A Area, A Use)	(Total) ed (In Countrial* In City) Use GC Parks	(All Zoned D Area, 1 St Ind Use)	(All Zoned D Area, 1 St Ind Use)	(All Zoned A Area, A Use)	(All Zoned A Area, A Use)	(Total) In City) Use A	(All Zoned D Area, GC Use)	(All Zoned D Area, GC Use)	(All Zoned A Area, A Use)	
	2.0	18.6 (Total) Not Zoned (In County) *Residential* Zoned (In City) Area Use D GC Undev. Parks	19.2	55.8	1.2	1.0	$\begin{array}{ccc} 2.4 & (\text{Total} \\ \underline{Zoned} & (\text{In City}) \\ \underline{Area} & \underline{Use} \\ A & A \\ C & C \end{array}$	1.0	1.2	1.4	0
MIXED	0	0	0	0	0	0	0	0	0	0	0
SEMI-PUBLIC PUBLIC R.O.W. MIXED	47.6	18.4	20.4	14.4	48.4	50°3	49.2	5.7	40°7	41.3	43.2
SEMI-PUBLIC	0	0	0	0	2.1	2.9	0	0	0	0	12.9
PUBLIC CHURCHES	e,	0	0	0	m.	.2	1.9	۲.	2.8	₹.	• 5
PUBLIC	0	0	0	e,	6.	3.4	φ 	.2	10.1	19.4	0
INDUSTRIAL	.7	10.8	47.0	62.0	1.4	0	ű.	1.0	ű.	0	.1
COMMERCIAL	1.8	10.3	.1	1.3	1.6	7.	۲.	4.2	3.6	9.	9.
RESIDENTIAL	68.4	21.2	3.7	5.0	68.3	69.7	65.6	1.1	45.8	56.4	61.3
NET	73.2	6.09	70.0	124.4	75.8	77.9	79.2	8.2	63.8	78.3	75.4
TOTAL	120.8	79.3	90°7	138.8	124.2	128.2	128.4	13.9	104.5	119.6	118.6
O-D ZONE	7312	7313	7401	7402	7403	7404	7405	7406	7407	7408	7409

AREA IN ACRES

					110				
AND	(All Zoned A Area, A Use)	(All Zoned A Area, A Use)	(All Zoned A Area, A Use)	2, 2	તંત્ર	66.9			(All Zoned A Area, A Use)
VACANT LAND	(All Zone A Use)	(All Zone A Use)		(Total) In City) Use LB LB LB LB	1 (Total) (In City) Use LB LB LB	(Total) In City) Use Sub Parks			(All Zone A Use)
	1.0	1.4	3.8	2.7 (Total Zoned (In City) Area Use A LB C LB	1.1 <u>Zoned</u> (1 <u>Area</u> A B C	143.9 (Total Zoned (In City) Area Use A Sub Undev. Parks	0	0	7.1
MIXED	0	0	0	0	e.	0	0	0	0
PUBLIC CHURCHES SEMI-PUBLIC PUBLIC R.O.W.	7°07	35.9	39.4	10.5	7.0	22.7	1.1	1,4	8.69
SEMI-PUBLIC	0	0	0	0	0	0	0	0	0
CHURCHES	1.3	0	0	0	0	0	0	0	.2
PUBLIC	7.5	12.2	0	0	0	115.2	0	0	5.1
INDUSTRIAL	0	0	.2	o.	ī.	40.7	6.9	0	3.4
RESIDENTIAL COMMERCIAL INDUSTRIA	9•	1.2	0	12.3	ω 	0	0	2.6	.2
RESIDENTIAL	56.7	65.5	62.5	7.9	1.0	0	0	0	100.0
NET	67.1	80.3	66.5	23.8	11.3	299.8	6.9	2.6	116.0
TOTAL	107.5	116.2	105.9	34.3	18.3	322.5	8.0	0.4	185.8
0-D ZONE	7410	7411	7412	7413	7414	7501	7502	7503	7504

AREA IN ACRES

					111				
VACANT LAND	4.8 (Total) Zoned (In City) A A A 3.1 C C C 1.4 D GC .3.1	2.6 (All Zoned A Area, A Use)	1.2 (All Zoned A Area, A Use)	.9 (All Zoned C Area, LB Use)	1.6 (Total) <u>Zoned</u> (In City) <u>Area</u> <u>Use</u> C LB Limited 1.2	4.1 (All Zoned A Area, A Use)	0	.7 (All Zoned C Area, LB Use)	6.1 (Total) 2oned (In City) Area Use A A A 4.1 C LB 6.3 Undev. Parks .5
MIXED	0	0	0	0	0	0	0	0	0
RESIDENTIAL COMMERCIAL INDUSTRIAL PUBLIC CHURCHES SEMI-PUBLIC PUBLIC R.O.W. MIXED	63.6	65.4	51.3	1.6	53.6	41.6	1.4	1.4	6.7
SEMI-PUBLIC	0	0	13.3	0	0	0	0	0	0
CHURCHES	2.	1.0	.2	0	2.1	0	0	0	0
PUBLIC	3.7	0	2.7	0	18.3	7.0	0	0	0
INDUSTRIAL	0	0	.2	0	0	0	0	9.	0
COMMERCIAL	σ,	ε.	1.5	1.5	2 . 8	4.	2.6	1.4	2,4
RESIDENTIAL	93.7	97.3	74.1	0	73.6	77.3	0	0	0
NET	103.3	101.2	93.2	2.4	98.4	88.8	2.6	2.7	8 .5
TOTAL	166.9	166.6	144.5	0.4	152.0	130.4	0.4	4.1	15.2
O-D ZONE	7505	7506	7507	7508	7509	7510	7511	7512	7513

AREA IN ACRES

						211.4 19.0 6.7 1.0			66.4
VACANT LAND	16.3 (All Not Zoned) *Public*	657.5 (All Not Zoned) *Industrial* *Agricultural*	2.8 (All Not Zoned) *Industrial*	253.4 (All Not Zoned) *Industrial*	333.1 (All Not Zoned) *Industrial* *Agricultural*	238.1 (Total) Not Zoned (In County) *Residential* Zoned (In City) Area Use C C C D LB	100.2 (All Not Zoned) *Residential*	(Specific Area Categories for Malmstrom AFB not tabulated)	80.0 (Total) Not Zoned (In County) *Residential* Zoned (In City) Area Use A A
MIXED	0	0	0	0	0	0	0	mstrom	0
CHURCHES SEMI-PUBLIC PUBLIC R.O.W.	2.4	34.7	7.	21.9	17.1	47.9	15.4	gories for Mal	27.5
SEMI-PUBLIC	0	0	0	0	0	0	0	fic Area Cate	0
CHURCHES	0	0	0	0	0	ŵ,	0	(Speci	1.4
PUBLIC	11.0	0	0	0	0	12.8	17.4	0.046	52.0
INDUSTRIAL	0	21.3	11.8	61.7	41.4	18.3	0		0
RESIDENTIAL COMMERCIAL INDUSTRI	0	٠,	0	0	0	2,3	24.2		13.5
RESIDENTIAL	0	1.0	5.	0	0	66.2	194.6		58.3
NET	27.3	680.3	15.1	315.1	374.5	338,3	336.4	0.046	205.2
TOTAL	29.7	715.0	15.8	337.0	391.6	386.2	351.8	0.046	232.7
0-D ZONE	7601	7602	7603	7701	7702	7703	7704	7801	7901

AREA IN ACRES

1 1	-	5 4 9		. T.3	7	4 / 4 9	6	en
	303.1	14.5 7.4 4.1 6.9	7.7 5.0 .2	3.2	129.7	71.4 2.7 24.4 8.6	6.69	13.3
VACANT LAND	0.00 100 1100 1100	Area Use A A B B C C Undev. Streets	$\begin{array}{ccc} 12.9 & (\text{Total}) \\ \underline{Zoned} & (\text{In City}) \\ \underline{Area} & \underline{Use} \\ A & A \\ D & GC \\ Undev. Streets \\ \end{array}$	9.7 (Total) Zoned (In City) Area Use A A D GC	236.8 (Total) Not Zoned (In County) *Residential* Zoned (In City) Area Use		83.2 (Total) Not Zoned (In County) *Residential* Zoned (In City)	A A A
MIXED	0		0	0	0		0	
PUBLIC R.O.W.	64.0		43.2	45.1	61.8		57.4	
SEMI-PUBLIC	0		• 5	0	1.2		7.9	
CHURCHES	0		7.	0	0		0	
PUBLIC	11.0		2.2	15.4	28.5		65.5	
INDUSTRIAL	0		e.	1.4	40°4		0	
COMMERCIAL	7.5		1.4	.2	8 4.		m,	
RESIDENTIAL	93.0		91.9	90.4	106.7		31.3	
NET	447.5		109.6	117.1	422.0		188.2	
TOTAL	511.5		152.8	162.2	483.8		245.6	
0-D ZONE	7902		7903	7904	8001		8002	

AREA IN ACRES

ND	30.4 30.4 2.5 1.5 1.7 1.7 3.6			139.4 8.2 9.7 11.7 7.3	19.8 10.8 3.2 22.4
VACANT LAND	Not Zoned (In County) *Residential* Zoned (In City) Area Use A A A B A B B C C C C C LB D LB D GC Undev. Streets Undev. Alleys	0	0	167.4 (Total) Not Zoned (In County) *Residential* Zoned (In City) Area Use C C C C D GC Undev. Streets Undev. Alleys	57.4 (Total) Zoned (In City) Area Use A A C C D LB Undev. Parks
MIXED		0	0	0 원휴 있침 1 만 만	O A A A L
PUBLIC R.O.W.	122.2	2.2	5.8	24.2	9.05
SEMI-PUBLIC	0	0	63.9	13.0	0
CHURCHES	·	0	0	0	1.7
PUBLIC	13.2	0	0	0	0
INDUSTRIAL	2.7	0	0	3.1	0
RESIDENTIAL COMMERCIAL INDUSTRIAL	3.0	15.6	0	& &	3.1
RESIDENTIAL	116.3	0	0	φ σ.	43.6
NET	214.4	15.6	63.9	201.0	105.8
TOTAL	336.6	17.8	7.69	225.2	156.4
0-D ZONE	8003	8004	8101	8102	8103

AREA IN ACRES

	0.604	14.5	170.1 135.3			
VACANT LAND	436.7 (Total) Not Zoned (In County) *Agricultural* Zoned (In City)	A A B A	305.4 (Total) Not Zoned (In County) *Residential* Undev. Cemetery	480.1 (All Not Zoned) *Agricultural*	546.7 (All Not Zoned) *Agricultural*	9,866.5
MIXED	0		0	0	0	17.1
PUBLIC CHURCHES SEMI-PUBLIC PUBLIC R.O.W.	11.3		7.5	8.6	13.3	2,719.7
SEMI-PUBLIC	0		33.5	0	0	285.4
CHURCHES	0		0	0	0	41.0
	0		0	0	0	1,798.3
INDUSTRIAL	31.9		0	91.8	0	1,815.8
RESIDENTIAL COMMERCIAL INDUSTRIAL	1.6		0	38,3	0	352.1
RESIDENTIAL	∞.		0	0	0	20,421.6 17,701.9 3,525.7
NET	471.0		338.9	610.2	546.7	17,701.9
TOTAL	482.3		346.4	620.0	260.0	20,421.6
O-D ZONE	8104		8105	8201	8202	TOTAL OF 100 ZONES

I* Indicates Probable Future County Zoning*

GREAT FALLS CITY-COUNTY PLANNING BOARD

SUMMARY FIGURES FOR SEPTEMBER 1964 LAND USE INVENTORY - FOR 15 NEIGHBORHOOD UNITS

AREA IN ACRES

	VACANT LAND	(Total)		I*		rial* 1* 403.4 ltural* 156.4 ntial* 338.3 In City)	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	*I	403.4 156.4 338.3 898.1 19.0 6.7 1.0	1* 156.4 156.4 138.3 898.1 19.0 6.7 1.0		403.4 156.4 338.3 898.1 19.0 6.7 1.0 66.4 303.1 369.5	403.4 156.4 338.3 898.1 19.0 6.7 1.0 66.4 303.1 369.5	403.4 156.4 338.3 898.1 19.0 6.7 1.0 66.4 303.1 369.5	403.4 156.4 338.3 898.1 19.0 6.7 1.0 66.4 303.1 369.5 7.3	403.4 156.4 338.3 898.1 19.0 6.7 1.0 66.4 303.1 369.5 7.3 4.1	403.4 156.4 338.3 898.1 19.0 6.7 1.0 66.4 303.1 369.5 7.3 4.1 8.3
		0 924.8 (Total)	*Industrial*	44.	*Agricultural* *Residential*	*Agricultural* *Residential* Zoned (In City)	*Agricultur *Residentia Zoned (In Area Us	*Agricultul *Residenti 20ned (In (Area Us.	*Agricultur *Residentia Zoned (In Area Us. A A A C C C C	*Agricultural* *Residential* Zoned (In City Area Use A A C C D LB D LB								
	RESIDENTIAL COMMERCIAL INDUSTRIAL PUBLIC CHURCHES SEMI-PUBLIC PUBLIC R.O.W. MIXED	102.3								179.8	179.8	179.8	179.8	179.8	179.8	179.8	179.8	179.8
	SEMI-PUBLIC	0								5.	.2	5.			~.	5.	5.	5.
	CHURCHES	9.								2.2								
	PUBLIC	30.2								80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7
	INDUSTRIAL	121.3								1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
	COMMERCIAL	26.6								22.6	22.6	22.6	22.6	22.6	22.6	22.6	22.6	22.6
	RESIDENTIAL	260.8								333.5	333,5	333.5	333.5	333,5	333.5	333.5	333.5	333.5
	NET	1,364.3								879.4	879.4	879.4	879.4	879.4	879.4	879.4	879.4	879.4
	TOTAL	1,466.6 1,364.3								1,059.2	1,059.2	1,059.2	1,059.2	1,059.2	1,059.2	1,059.2	1,059.2	1,059.2
NEIGHBORHOOD	UNIT	1	(0-D Zones	//01, //02, 7703, 7704)						2	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	2 (O-D Zones 7901, 7902,	2 (O-D Zones 7901, 7902, 7903, 7904)	2 (O-D Zones 7901, 7902, 7903, 7904)	2 (O-D Zones 7901, 7902, 7903, 7904)	2 (0-D Zones 7901, 7902, 7903, 7904)	2 (0-D Zones 7901, 7902, 7903, 7904)	2 (0-D Zones 7901, 7902, 7903, 7904)

AREA IN ACRES

	309.6		17	11.2
VACANT LAND	966.9 (Total) Not Zoned (In County) *Residential* *Agricultural*	Zoned (In City) Area Use A A B A C C C C D GC D LB Undev. Parks Undev. Streets Undev. Alleys	173.0 (Total) Not Zoned (In County) None Zoned (In City) Area Use A A A Sub C C C LB C LB-Limited	Undev. Pa 90.5 (T Not Zoned None Zoned (In Area C
MIXED	0		0	4.
PUBLIC R.O.W.	99.3		381.5	436.1
SEMI-PUBLIC	110.3		13.3	17.8
CHURCHES	1.7		3.6	8.1
PUBLIC	0		152.0	62.4
INDUSTRIAL	35.0		51.9	112.4
COMMERCIAL	13.3		16.6	24.1
RESIDENTIAL	53.4		516.0	562.6
NET	1,180.6		926.4	878.3
TOTAL	1,279.9		1,307.9	1,314.4
NEIGHBORHOOD UNIT	3 (O-D Zones 8101, 8102, 8163, 8107,	8105) 8104,	4 (0-D Zones 7501 thru 7513, incl)	5 (0-D Zones 7401 thru 7412, incl, & 7414)

AREA IN ACRES

	2.2 75.0	235.8 115.1 1.5.1 1.5.2 1.5.2 1.6.4 9.4 9.4 9.4 9.4	2.0.7.7.
MIXED VACANT LAND	Area Use (Cont.) B LB C LB D GC D 1 St Ind	O 420.3 (Total) Not Zoned (In County) *Residential* Zoned (In City) Area Use A A B B C C C A LB B LB C LB C LB D LB D GC D I St Ind Undev. Parks Undev. Alleys	16.7 3.9 (Total) Not Zoned (In County) None Zoned (In City) Area Use A A C B C C C C C GC D 1 St Ind
PUBLIC CHURCHES SEMI-PUBLIC PUBLIC R.O.W.		272.6	244.4
SEMI-PUBLIC		9.1	e.
CHURCHES			ω
		107.2	103.6
INDUSTRIAL		54.8	170.8
COMMERCIAL		6.64	9.09
RESIDENTIAL		283.5	211.5
NET		925.0	574.4
TOTAL		1,197.6	818.8
NEIGHBORHOOD UNIT	5 (Cont.)	6 (O-D Zones 7313, 7413, 8001, 8002, 8003, 8004)	7 (0-D Zones 7301, thru 7312, incl.)

AREA IN ACRES

	, ,		5 8888) (0	11 6 m		1 2	5 5	0	0	7	2 2	· m -	- <i>-</i> -	9
			95.5 44.8 11.8 11.8	21.	398.9	6.3 71.9 8.4 7.9	14.	29.5	33.	3.6	9.7	6.2	4.3	15.1	131.6
	VACANT LAND	191.3 (Total) Not Zoned (In County)	*Residential* Zoned (In City) Area Use A A C C C C C LB	Undev. Streets 529.0 (Total)	gricult ned (Ir	A B A Sub C LB Undev. Parks	Undev. Streets Undev. Alleys	233.8 (Total) Not Zoned (In County) *Industrial* *Residential*	Zoned (In City)		o)	ed to) # ⁵	D GC	D 1 St Ind
	MIXED	0		0				0							
	SEMI-PUBLIC PUBLIC R.O.W.	68.7		9.76				213.3							
	SEMI-PUBLIC	130.3		0				e,							
d d d d	CHURCHES	0		0				1.8							
1	PUBLIC	69.2		0				25.9							
1	INDUSTRIAL	7.5		13.2				270.7							
	RESIDENTIAL COMMERCIAL	2.0		4.7				14.9							
	RESIDENTIAL	88.4		43.5				371.9							
	NET	488.7+		590.4				919.3							
	TOTAL	557,4+		688.0				1,132.6							
	NEIGHBORHOOD UNIT	∞	(0-D Zones 7201, 7202, and acres not in zones)	6	(0-D Zone 7001)			10 (0-D Zones 6601 thru	6613 incl.)						

AREA IN ACRES

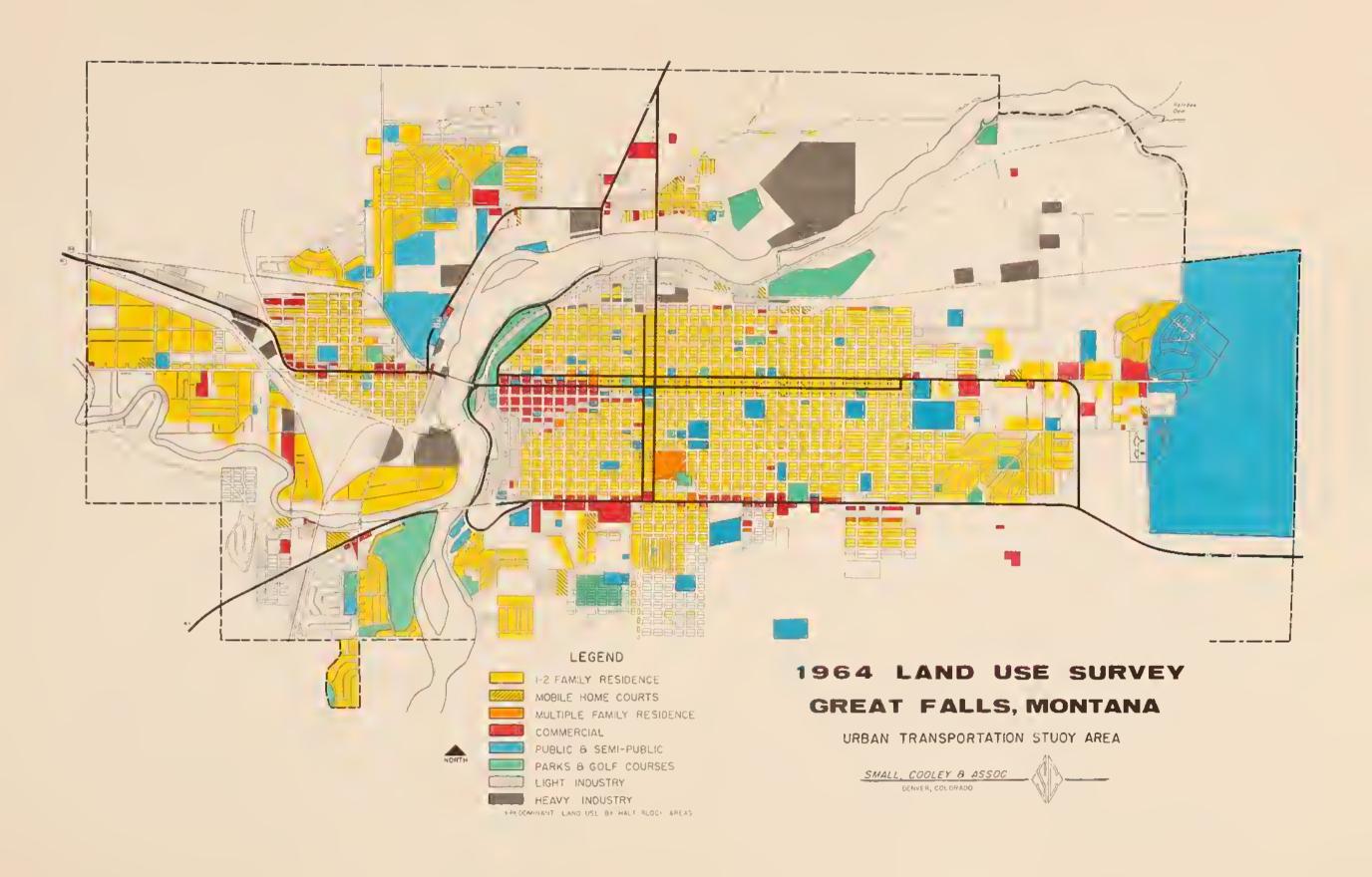
	10.3	148.8 80.6 2.5	130 130 130 130 130 130	78.3 92.6 170.9 3.7 4.3 32.6 .3
VACANT LAND	<u>Area</u> <u>Use</u> (Cont.) D LB Undev. Parks	238.1 (Total) Not Zoned (In County) *Residential* Zoned (In City) Area Use A Sub Undev. Parks	790.1 (Total Not Zoned (In County) *Agricultural* Zoned (In City) Area Use A A B A C C C D GC Undev. Streets Undev. Parks	219.1 (Total) Not Zoned (In County) *Industrial* *Residential* Zoned (In City) Area Use A A B GC D I St Ind Undev. Parks Undev. Streets
MIXED		0	0	0
SEMI-PUBLIC PUBLIC R.O.W.		173.5	37.0	35.3
SEMI-PUBLIC		٠.	0	0
PUBLIC CHURCHES		۲.	9	0
PUBLIC		7.3	9° &	151.0
INDUSTRIAL		8.8	ω	144.7
COMMERCIAL		18.8	2.4	7.6
RESIDENTIAL		334.6	83.0	36.0
NET		605.8	0.88	560.5
TOTAL		779.3	936.0	595.8
NEIGHBORHOOD UNIT	10 (Cont.)	11 (0-D Zones 6901 & 6902)	12 (O-D Zones 6201 & 6202)	13 (0-D Zones 6701 thru 6706 incl.)

AREA IN ACRES

NEIGHBORHOOD UNIT	TOTAL	NET	RESIDENTIAL COMMERCIAL INDUSTRIAL	COMMERCIAL	INDUSTRIAL		CHURCHES	SEMI-PUBLIC	PUBLIC CHURCHES SEMI-PUBLIC PUBLIC R.O.W. MIXED	MIXED	VACANT LAND	
14	1,149.5	978.5	271.5	21.0	11.6	46.4	6.8	0	171.0	0	621.2 (Total)	
(0-D Zones 6301 thru											*Residential* Zoned (In City)	524.8
6305 incl.)											Area Use	70 3
											. O	3.8
											D 60	2,3
											Undev. Parks	7.0
											Undev. Streets	4.0
15	8.498	808.7	51.2	18.8	8.764	1.1	6.4	0	56.1	0	234.9 (Total)	
(0-D Zones											Not Zoned (In County)	σ σ
6801 & parts of 6401 &											*Agricultural*	133.9
6501)											Zoned (In City)	0.767
											Undeveloped Streets	1.6
TOTAL OF 15 NEIGHBORHOOD												
UNITS	15,147.8	15,147.8 12,579.3	3,501,4	306.0	1,507.4	845.6	41.0	285.3	2,568.5	17.1	6,075.5	

Indicates Probable Future County Zoning*







II

LAND USE PROJECTIONS

to 1969, 1974, 1979 & 1981

Land Use Projections:

Land use projections were made for transportation planning purposes, and also for immediate zoning recommendations in the County area, presently unzoned, surrounding the City. Information gained in the personal and letter-form interviews was utilized along with the personal knowledge of growth trends and patterns of the City-County Planning Board staff. Plats, both pending and filed, were reviewed along with records of the Building Inspector's Department as to permits for new construction. The County Assessor's records were also reviewed. Maps and overlays were prepared of the following items:

- 1. Dot maps showing permits for new dwelling units, annually, 1950-1965.
- 2. Land Use, by category, from the 1964 survey and inventory.
- 3. County zoning, as it existed prior to the adverse Court decision.
- 4. Flooded areas from the two recent floods.
- 5. Recommended "clear zone" areas near airports.
- 6. Existing and proposed major roadways.
- 7. Existing and proposed community facilities, such as schools, parks, swimming pools, fire stations, libraries, etc.
- 8. Existing and proposed water mains, and proposed "highlevel" service areas.
- 9. Existing and proposed sewage mains, including designation of areas not possible to serve from present plant.
- 10. Existing and proposed storm sewers, including designation of areas where growth will be hindered because of inadequate storm drainage.
- 11. Existing and proposed plats of presently undeveloped areas.
- 12. Proposed land use, by type, was then mapped, showing the first five-year growth stage, and the remainder to 1981.

In addition to the work of the City-County Planning Board staff, many other department heads and individuals participated in this work. The City Engineer was particularly helpful. Also a great deal of information was utilized from the various reports of the Urban Transportation Survey of the Planning Survey Division, Montana State Highway Commission.

All vacant land within the study area was reviewed on maps and by field trips as to its topographic and drainage characteristics, the availability of roads and rail access, the availability of water and sewerage facilities and power, the existing or proposed zoning, adjoining land use, and general growth trends in the area. Development of these vacant areas was then projected on the Land Use Projection Map.

Population was estimated for 1964, the date of the Land Use Survey, for O-D Zones and Neighborhood Units, by the following process:

- 1. 1960 population was totaled from the 1960 Census block statistics for each O-D Zone and Neighborhood Unit.
- 2. From the Building Inspector's records, a 1964 dwelling unit count was computed.
- 3. By utilizing family-size information for each area, 1964 population estimates were prepared.

From the economic study, total amounts of land use, by type, were forecast to 1981. Gross acreages, which include local streets, were utilized in these computations. For new single-family residential development, an average of 3.5 dwelling units per gross acre, and 3.2 persons per family was assumed. New business development was related to projected consumer buying power, and new industrial development was related to projected employment in these uses. Trends of increased space usage because of new technology, new plant design, parking, etc., were utilized in projecting the acres of new business and industrial growth.

The following tables show residential land use projections by five-year periods from 1964 to 1981. The figures are summarized for each O-D Zone and each Neighborhood Unit, along with totals for the period. While the total population projection was 110,000, these tables total to 105,680 because Malmstrom Air Force Base and other minor areas are outside of the designated neighborhood units.

156 MALMSTROM A.F.B. I. NEIGHBORHOOD UNITS 1981 (PROJECTED) 32 8 2895 E-F | 32 2782 6 ď POPULATION 200 00 6 6 0 0 N-F3 4 9 8 1950 88 TRANSPORTATION STUDY AREA 69 ñ 5140 80 GREAT FALLS S-F 2 N <u>ත</u> N-F 200 4 0 4 0 ſΟ. 008/ 2004 1004 <u></u> Ö URBAN 100 203 4 125 601 <u>w</u> 8 4 4 0 4 4 8,29 220 746 0 4996 460 ⋈ 250 S-F 4 340 945 1976 323 N-F | 1227 2

FACTORS AFFECTING DEVELOPMENT IN EACH NEIGHBORHOOD UNIT

UNIT #1

1950	Population	60	Area	1,466.6 acres
1960	Population	1,119		
1964	Population	2,084	O-D Zones	7701-7704
1969	Population	3,194		
1976	Population	4,314		
1979	Population	5,434		
1981	Population	5 , 882		

The residential development in this unit consists of moderately priced houses and the Boeing Trailer Court (Minuteman employees). This is probably a temporary use. A number of industrial uses are located in this unit, such as the Milwaukee Railroad Yards, Weissman Scrap Yards, Birch Construction, Conoco Bulk Plant, and Great Falls Meat Packing Company. There are large areas available for industrial use. There are new housing units of the relocatable type on Malmstrom Air Force Base property, and approximately 80 families have recently moved onto the Base. The proximity of the Air Force Base does not appear to deter new development. It would appear desirable to relocate the one contractor's yard at 38th Street and 7th Avenue North so that the area south of the railroad tracks could be kept in residential use. One large landowner owns much of the land north and west of the Air Force Base that is presently undeveloped, and he wishes to keep it in residential use. The area north of the tracks is probably the best potential industrial area in the City. It is relatively flat, has excellent utility service, excellent roadway and rail access. For residential development in this unit, the same factors, excluding railroad access, will assist in drawing new development. In addition, shopping facilities and schools are immediately available. Proximity to the Air Force Base will also bring some new development.

Land Use: (In Acres)	1964
Residential	260.8
Commercial	26.6
Industrial	121.3
Public & Semi-Public	30.8
Public R.O.W.	102.3
Vacant Land	924.8

Vacant: 924.8 (Total)

Not Zoned (In County)	Zoned (In City)
Industrial - 403.4 Agricultural - 156.4 Residential - 338.3 898.1	Area Use A A 19.0 C C 6.7 D LB 1.0

1950	Population	200	Area	1,059.2 acres
1960	Population	2,782		
1964	Population	5,640	O-D Zones	7901-7904
1969	Population	6,447		
1974	Population	6,636		
1979	Population	6,825		
1981	Population	6,902		

The developed portion of this unit consists of frame and brick houses with open and sub-standard uses in the County. A large Junior High School is located in this unit, and the unit lies adjacent to Malmstrom Air Force Base. A large 80-acre shopping center, known as "Harvest Hills," is planned within this unit between 3rd and 9th Avenues South, and between 57th Street and 60th Street. According to announced plans, this shopping center will contain the relocated Buttrey Department Store, a Penney's Store, and a Buttrey's Supermarket, among other uses. This proposed shopping center is shown on the projected land use map, and will be a major traffic influence when it is built. Construction has not yet begun.

Land Use: (In Acres)	1964
Residential	333.5
Commercial	22.6
Industrial	1.6
Public & Semi-Public	83.1
Public R.O.W.	179.8
Vacant Land	438.6

Vacant: 438.6 (Total)

Not Zoned (In County)	Zoned (In City)
Residential - 66.4	Area Use
Agricultural - 303.1	A A 42.2
369.5	В В 7.3
	C C 4.1
	D GC 8.3
	Undev. Streets 7.2

1950 Population	0	Area	1,279.9 acres
1960 Population	169		
1964 Population	1,054	O-D Zones	8101-8105
1969 Population	2,011		
1974 Population	3,048		
1979 Population	4,085		
1981 Population	4,498		

Development in this unit is primarily in the Charles Russell Addition with homes in the medium-to-high price level on large sites. A nursing home is also built in this unit. are not paved as yet. A new automobile dealer has recently located at the northeast corner of this unit, on 10th Avenue South. Some business exists along 10th Avenue South, with a few apartments between the business area and the single-family homes. area served by sanitary sewers will continue to develop moderately, but the area south of the Ridge line can only develop when a major new sewage treatment plant is built, or a pumping station provided. A storm sewer is also needed for a portion of the area. The approach zone to Malmstrom Air Force Base becomes an inhibiting factor at the southern edge of this unit, and the cemetery may also restrict adjacent development. A slaughterhouse is in operation south of the unit. Approximately 150-160 acres are immediately available for residential development to the north of the Ridge line.

Land Use: (In Acres)	1964
Residential	53.4
Commercial	13.3
Industrial	35.0
Public & Semi-Public	112.0
Public R.O.W.	99.3
Vacant Land	966.9

Vacant: 966.9 (Total)

Not Zoned (In	CO	unty)
Residential	Control	309.6
Agricultural	-	409.0
		718.6

Zoned	(In City)	
Area	Use	
A	A	42.5
В	A	13.3
C	С	20.4
D	GC	1.7
D	LB	3.1
Undev.	Parks	22.4
Undev.	Streets	8.3
Undev.	Alleys	1.3
Undev.	Cemetery	135.3

1950 Popul	lation	5,140	Area	1,307.9 acres
1960 Popul	lation	10,587		
1961 Popul	Lation	10,559	O-D Zones	7501-7513
1964 Popul	Lation	11,046		
1969 Popul	lation	11,133		
1974 Popul	Lation	11,133		
1979 Popul	Lation	11,133		
1981 Popul	Lation	11,133		

This unit consists primarily of a substantial residential development of well-kept older homes. Only a few scattered vacant lots exist south of 9th Avenue North. The only undeveloped area consists of the Municipal Golf Course, the Veteran's Memorial Park, the American Legion Baseball Park, and some area immediately south of the river. The topography is severe on this land, limiting the potential industrial use. A few more sites are expected to develop in homes, and no apartment re-use is contemplated.

Land Use: (In Acres)	1964
Residential	516.0
Commercial	16.6
Industrial	51.9
Public & Semi-Public	168.9
Public R.O.W.	381.5
Vacant Land	173.0

Vacant: 173.0 (Total)

Not	Zoned	(In	County)
None	2		

n City)	
Use	
A	22.6
Sub	66.9
C	1.4
LB	2.9
LB-Lim	. 1.2
GC	. 6
arks	77.4
	Use A Sub C LB LB-Lim GC

1950 Population	14,767	Area	1,314.4 acres
1960 Population	15,401		
1964 Population	15,580	O-D Zones	7401-7412
1969 Population	15,530		
1974 Population	15,480		
1979 Population	15,430		
1981 Population	15,400		

This unit is quite similar to Unit #4, except it is older. Some good industrial potential exists north of the railroad tracks. Infilling of new residences will be very slow because of limited available sites. A small amount of apartment building will take place in this unit. The unit contains the "Parkdale" public housing area, which is well kept.

Land Use: (In Acres)	1964
Residential	562.6
Commercial	24.1
Industrial	112.4
Public & Semi-Public	88.3
Public R.O.W.	436.1
Vacant Land	90.5

Vacant: 90.5 (Total)

Not Zoned (In County)	Zoned	(In
None	Area	Ţ
	A	

Zoned	(In City)	
Area	Use	
A	A	11.2
C	С	1.0
A	LB	.2
В	LB	.6
C	LB	. 3
D	GC	2.2
D	1 St Ind.	75.0

1950 Popula	ation	1,500	Area	1,197.6 acres
1960 Popula	ation	4,030		
1961 Popul	ation	5,658	O-D Zones	7313, 7413
1964 Popul	ation	5,050		8001-8004
1969 Popul	ation	5,703		
1974 Popul	ation	6,362		
1979 Popul	ation	7,021		
1981 Popula	ation	7,500		

Development in this area is very mixed as to usage and quality. Some very sub-standard development exists in the south and southeastern portion of the unit. Fine new homes are being built on the west side of this unit. Some trailer housing exists in the County. The County Hospital is in this unit, as is a new Eagle Lodge, and a City-County park site. Holiday Village, the biggest existing shopping center in the area, is on 10th Avenue South. Major expansions are planned for this center. The sewer drainage break cuts this area also, and future development in the southern part of the unit will depend upon future sewerage services to the south or a pumping station. More business development can be anticipated along 10th Avenue South.

Land Use: (In Acres)	1964
Residential	283.5
Commercial	49.9
Industrial	54.8
Public & Semi-Public	116.5
Public R.O.W.	272.6
Vacant Land	420.3

Vacant: 420.3 (Total)

Not Zoned (In County)
Residential - 235.8

Zoned	(In City)	
Area	Use	
A	A	115.1
В	A	. 2
В	B	5.2
С	C	1.5
A	\mathtt{LB}	. 2
B	LB	. 3
С	LB	2.7
D	LB	1.7
D	GC	16.4
D	1 St Ind.	24.4
Undev.	Parks	9.4
Undev.	Streets	3.6
Undev.	Alleys	3.8

1950 Population	12,336	Area	818.8 acres
1960 Population	10,615		
1964 Population	10,731	O-D Zones	7301-7312
1969 Population	10,372		
1974 Population	10,011		
1979 Population	9,650		
1981 Population	9,500		

This unit contains the oldest housing in the area and the Central Business District of Great Falls. Some residential blight is apparent in this unit, particularly on the south side. There is almost no vacant ground, but some new apartments can be expected on redeveloped land. Expansion and the economic future of the Central Business District are somewhat questionable at this moment because of major new shopping centers being developed. Some programs to revitalize the Central Business District have been instituted, but these are still in the planning stage. Some potential industrial land is available along the river.

Land Use: (In Acres)	1964
Residential	211.5
Commercial	60.6
Industrial	170.8
Public & Semi-Public	110.9
Public R.O.W.	244.4
Vacant Land	3.9

Vacant: 3.9 (Total)

Not Zoned (In County)	Zoned	(In City)	
None	Area	Use	
	A	A	2.0
	C	B	. 2
	С	C	.8
	C	GC	.7
	D	1 Ct Ind	າ

1950	Population	0	Area	557.4 acres
1960	Population	746		
1961	Population	803	O-D Zones	7201, 7202
1964	Population	1,254		& acres not
1969	Population	3,999		in zones.
1974	Population	5,020		
1979	Population	6,041		
1981	Population	6,449		

This unit contains new high-quality residential development and a Country Club and Golf Course. Rapid new development is expected within this unit. Approximately 40-50 acres of low ground will need storm sewering and a problem exists because some of it is lower than the river in flood stages. All land in the City is expected to develop soon and County land in the Montana Addition (lll acres) is to be annexed and is developable.

Land Use: (In Acres)	1964
Residential	88.4
Commercial	2.0
Industrial	7.5
Public & Semi-Public	199.5
Public R.O.W.	68.7
Vacant Land	191.3

Vacant: 191.3 (Total)

Not Zoned (In County)	Zoned (In City)
Residential - 95.5	<u>Area</u> <u>Use</u>
	A A 44.8
	C C 1.8
	C LB 11.8
	Undev. Parks 15.8
	Undev. Streets 21.6

1950 Population	179	Area	688.0 acres
1960 Population	325		
1964 Population	414	O-D Zone	7001
1969 Population	945		
1974 Population	945		
1979 Population	945		
1981 Population	945		

This unit was damaged during the recent flood. It contains mixed land use, is cut up by major roadways, and has poor access. Some trailer housing exists in the area. Some new housing has been built immediately east of the Airport, and these homes are separated from the City by the new freeway. Airport noise will probably inhibit new residential growth. There is limited potential for new growth in this unit. It is possible that a flood-control project may consume some land in this unit.

Land Use: (In Acres)	1964
Residential	43.5
Commercial	4.7
Industrial	13.2
Public & Semi-Public	0.0
Public R.O.W.	97.6
Vacant Land	529.0

Vacant: 529.0 (Total)

Not Zoned (<u>In</u>	<u>Cc</u>	unty)
Agricultura	1	entro.	398.9

Zoned	(In City)	
Area	Use	
A	A	18.3
A	B	6.3
A	Sub	71.9
С	LB	8.4
Undev.	Parks	7.9
Undev.	Streets	14.1
Undev.	Alleys	3.2

1950 Population	4,986	Area	1,132.6 acres
1960 Population	7,201		
1964 Population	7,284	O-D Zones	6601-6613
1969 Population	7,284		
1974 Population	7,412		
1979 Population	7,412		
1981 Population	7,412		

This unit contains a mixture of uses and much sub-standard residential development. There is good potential in the northern and southern portions for future industrial growth in this unit, with excellent truck and railroad access available. The North-west Truck Bypass lies along the northern side of this unit. A very limited amount of new residential growth can be expected in this unit. A moratorium is in effect on new residential development and plats pending flood-control work.

Land Use: (In Acres)	1964
Residential	371.9
Commercial	14.9
Industrial	270.7
Public & Semi-Public	28.0
Public R.O.W.	213.3
Vacant Land	233.8

Vacant: 233.8 (Total)

Not Zoned (I	n C	ounty)
Industrial	-	29.5
Residential	=	3.5
		33.0

[7 a a .]	(To Gita)	
Zoned	(In City)	
<u>Area</u>	Use	
A	A	8.0
A	В	3.6
A	Sub	9.7
В	A	8.6
B	${\mathbb B}$	6.2
\mathbb{B}	С	.4
С	В	4.3
С	LB	. 1
D	GC	15.1
D	l St Ind.	131.6
D	\mathtt{LB}	10.3
Undev.	Parks	2.9

1950 Po	pulation	1,227	Area	779.3 acres
1960 Po	pulation	1,844		
1964 Po	pulation	1,750	O-D Zones	6901-6902
1969 Po	pulation	1,800		
1974 Po	pulation	1,800		
1979 Po	pulation	1,800		
1981 Po	pulation	1,800		

The residential development in this unit is of better quality than in Unit #10. The Planning Board has instituted moratoriums on future platting and building in this unit as it is floodable under present conditions. Only very limited future residential construction is expected in this unit. Access provided by the freeway may encourage light-industrial development along the railroad tracks in the north end of this unit.

Land Use: (In Acres)	1964
Residential	334.6
Commercial	18.8
Industrial	5.8
Public & Semi-Public	8.5
Public R.O.W.	173.5
Vacant Land	238.1

Vacant: 238.1 (Total)

Not Zoned (In County)	Zoned (In City)
Residential - 148.8	<u>Area</u> <u>Use</u>
	A Sub 80.6
	Undev. Parks 2.5
	Undev. Streets 6.2

1950 Population	250	Area	936.0 acres
1960 Population	365		
1964 Population	969	O-D Zones	6201-6202
1969 Population	1,417		
1974 Population	2,921		
1979 Population	4,677		
1981 Population	5,291		

A moderate amount of new residential growth has occurred in this unit, and is expected to continue. A steep hill has limited development to the north, but the new "high-level" water district will make water available to the northern portion of this unit, and encourage new development. This is considered a good long-range residential area.

Land Use: (In Acres)	1964
Residential	83.0
Commercial	2.4
Industrial	8.3
Public & Semi-Public	15.2
Public R.O.W.	37.0
Vacant Land	790.1

Vacant: 790.1 (Total)

Not Zoned (In	County)	Zoned (I	n City)
Agricultural	- 737.8	Area	Use

201100	1777 676	
Area	Use	
A	A	16.6
В	A	10.6
C	C	3.4
D	GC	.8
Undev.	Streets	13.0
Undev.	Alleys	1.6
Undev.	Parks	6.3

1950 Population	125	Area	595.8 acres
1960 Population	794		
1964 Population	808	O-D Zones	6701-6706
1969 Population	808		
1974 Population	1,326		
1979 Population	1,812		
1981 Population	2,007		

This unit contains residential development, the new Charles Russell High School, and a stockyards, which inhibits residential development nearby. There is some chance that the stockyards will be removed, leaving very desirable residential land. There is some good potential industrial land served by both rail and truck access, and the improvement of the U.S. 87 Bypass and construction of the new Northwest Bypass will attract more commercial—industrial activity.

Land Use: (In Acres)	1964
Residential	36.0
Commercial	9.7
Industrial	144.7
Public & Semi-Public	151.0
Public R.O.W.	35.3
Vacant Land	219.1

Vacant: 219.1 (Total)

Not Zoned (I	n C	ounty)	Zoneo	d (In City)	
Industrial	=	78.3	Area	Use	
Residential	erras	92.6	A	A	3.7
		170.9	В	GC	4.3
			D	l St Ind.	32.6
			Under	v. Parks	. 3
			Under	v. Streets	7.3

1950 Population	109	Area	1,149.5 acres
1960 Population	2,098		
1961 Population	4,032	O-D Zones	6301-6305
1964 Population	4,213		
1969 Population	7,464		
1974 Population	10,936		
1979 Population	14,376		
1981 Population	15,752		

This unit is the most active new residential area in the City, and it should continue. More land is available for development, and no utilities problem exists. A new shopping center is in operation, and the unit also contains the Phillips Industrial Plant. More industrial land is available for development within the unit.

Land Use: (In Acres)	1964
Residential	271.5
Commercial	21.0
Industrial	11.6
Public & Semi-Public	53.2
Public R.O.W.	171.0
Vacant Land	621.2

Vacant: 621.2 (Total)

Not Zoned (In County)	Zoned (In City)
Residential - 524.8	<u>Area</u> <u>Use</u>
	A A 79.3
	C C 3.8
	D GC 2.3
	Undev. Parks 7.0
	Undev. Streets 4.0

1950 Popula	tion 1,449	Area	864.8 acres
1960 Popula	tion 1,589		
1964 Popula	tion 1,660	O-D Zones	6801 & parts
1969 Popula	tion 1,660		of 6401 &
1974 Popula	tion 1,718		6501
1979 Popula	tion 1,776		
1981 Popula	tion 1,800		

This area is occupied by the Anaconda Complex, and Black Eagle. There is scattered mixed development in the unit. A high-level water district will make water available to the area, but only limited future residential growth is expected. There is some light industrial potential in this unit.

Land Use: (In Acres)	1964
Residential	51.2
Commercial	18.8
Industrial	497.8
Public & Semi-Public	6.0
Public R.O.W.	56.1
Vacant Land	234.9

Vacant: 234.9 (Total)

Not Zoned (In	Cc	ounty)	Zoned (In City)
Residential	-	98.9	Undev. Streets 1.6
Agricultural	←==	133.9	Undev. Alleys .5
		232.8	

UNIT SF4

1950	Population	0	O-D	Zones	7101-7102
1960	Population	0			
1964	Population	28			
1969	Population	1,058			
1974	Population	2,037			
1979	Population	3,016			
1981	Population	3,409			

A new residential subdivision is developing within this unit. It is pending annexation to the City. The site is on a hillside overlooking the City, and with the installation of utilities, paved streets and city services, it should develop rapidly. The area is bounded to the west by the new freeway and the airport, but because of the topographic difference, it is not adversely affected.

RESIDENTIAL LAND USE PROJECTIONS

		Total	Pop.	2,721 3,161 5,882	1,159 1,901 1,980 1,862 6,902	1,654 667 189 1,988 4,498	13 2,295 2,285 1,996 1,554 1,567 1,423	h
		Gross Res.	Acres	245.7 446.1 691.8	146.7 187.5 130.9 127.5 592.6	128.6 67.8 18.0 177.3 391.7	164.9 153.1 158.7 120.5 119.2 114.3	
	8 1		Pop。	278 170 5,882	26 51 6,902	83	11,133	
suc	1 9	Gross Res.	Acres	24.8 15.2 691.8	2.3 4.6 592.6	7.5 29.5 391.7	830.7	
Projections	7 9		Pop.	694 426 5,434	64 125 6,825	208 829 4,085	11,133)
Area Added	6	Gross Res.	Acres	62.1 37.9 651.8	5.7	18.6 73.9 354.7	830.7	
Are	7 4		Pop.	694 426 4,314	64 125 6,636	208 829 3,048	11.133)
	6	Gross Res.	Acres	62.1 37.9 551.8	11.2	18.6 73.9 262.2	830.7))
	6 9		Pop.	1,110 3,194	605 202 6,447	768 189 2,011	32 13 10 6 26 11,133) 1 2 5
	1 9	Gross Res.	Acres	99.1	54.0 18.1 551.9	68.5	2.9	
			Pop.	1,055 1,029 2,084	400 1,398 1,980 1,862 5,640	387 667 1,054	13 2,263 2,272 1,986 1,548 1,567 1,397)) n 4
Survey	1964	Gross Res.	Acres	96.7 256.0 352.7	79.0 142.4 130.9 127.5 479.8	15.4 67.8 1.1 84.3	162.0 152.0 157.9 120.0 119.2 112.0	
10		Net Res.	Acres	66.2 194.6 260.8	58.3 93.0 91.9 90.4 333.6	8.9 43.6 .8	100.0 93.7 97.3 74.1 73.6 77.3))
		0-D	Zone	7701 7702 7703 7704	7901 7902 7903 7904	8101 8102 8103 8104 8104	7501 7502 7503 7504 7504 7506 7507 7508 7510 7510	
			Unit	H	8	m	4	

			Total	Pop.	47	0.77	1 979	1,787	67	1.602	1,381	1,291	1,610	1,619	1,466	15,400	260		2,818	207	0,400	7,500	77	28	1,899	2,171	217	417	831	256		1,434	9,500	<i>e</i>
		Gross	Res.	Acres	6.0	110.8	113.0	106.3	0	74.3	91.4	99.4	92.0	106.2	101.3	910.0	34.4	29.3	311.9	7.00	•	681.6	1.9	3.9	56.5	9.46	c .	4	1.5	5,3	2.4		343.6	0
	8 1			Pop.		-10	9			-10	9		10			15,400		,	362	,,	/ T T	7,500			-32	-36	c	î	-13	-5	,	-25	9 500	•
SI	1 9	Gross	Res.	Acres												910.0			18.7		10.7	681.6											9 878) } }
Area Added Projections	7 9			Pop.		-27	ì			-23)		-25			15,430			358		301	7,021			-78	800	(8	-29	° 10		-59	9 650)))
Added P	1 9	Gross	Res.	Acres												910.0			46.8	,	20.07	652.2											9 678)))
Area	7 4			Pop.		-27	17			-23	7		-25			15,505			358	Č	301	6,362			-78	889	c	1	-29	-10		-59	10 01	10°01
	1 9	Gross	Res.	Acres												910.0			46.8	_	20.97	578.6											3/2 6))
	6 9			Pop.												15,580			653			5,703			-78	88	(6	-29	-10		-57	10 372	10°01
	1 9	Gross	Res.	Acres												910.0			58.4			505.0											3/3 6	つ・つまつ
				Pop.	47	י אינה ר	1 070	1,9/9	70/61	1 658	1 381	1,291	1,670	1,619	1,466	15,580	260	670	1,087		7,744	5,050	77	28	2,165	2,471		744	931	291	249	1,634	2,674	10,/01
Survey	1964	10	Res.	Acres	0.9	110 0	113.0	106.3	100.0	7/. 3	0.10	7.66	92.0	106.2	101.3	910.0	34.4	29.3	141.2	53.2	188.5	9.977	1.9	3.9	56.5	9.46		7.4	1.5	5.3	4	62.4	110.9	242.0
		Net	Res.	Acres	3.7		00.0	7.40	07.0	1.1	0.04	6.13	56.7	5	0	561.6	21.2	7.9	106.7	31.3	116.3	283.4	1.2	2.6	34.4	58.4		7.6	6.	3.1	1.5	38.5	211 6	7 7
			0-D	Zone	7401	7,402	7403	7404	7,007	7,07	7,007	2409	7410	7411	7412	1	7313	7413	8001	8002	8003	9004	7301	7302	7303	7304	1007	7306	7308	7309	7310	7311	7312	
				Unit	5												9						7											

		Total	Pop.	2,643	3,500	6,449	945	1,854 2,178 117 130	75	412 1,611 6	134 459 426	7,412	443 1,357 1,800	3,596 1,695 5,291
		Gross Res.	Acres	242.4	308.2	577.9	114.1	117.5 87.3 5.8 3.7	4.6	72.2	38.3	592.4	219.5 286.7 506.2	323.1 187.3 510.4
	8 1		Pop.		358	6,449	945					7,412	1,800	540 74 5,291
SI	1 9	Gross Res.	Acres		34.0	577.9	114.1					592.4	506.2	48.3 6.7 510.4
Area Added Projections	979		Pop.		893	6,041	945					7,412	1,800	1,540
Added]		Gross Res.	Acres		79.7	539.4	114.1					592.4	506.2	137.4 16.6 455.4
Area	7 4		Pop.		893	5,020	945	7 9				7,412	1,800	1,348 186 2,951
	6	Gross Res.	Acres		79.7	448.3	114.1	5.7				592.4	506.2	120.3 16.6 301.4
	6 9		Pop。	1,459	1,286	3,999	531					7,284	50 1,800	448
	196	Gross Res.	Acres	130.2	114.8	357.2	47.5					581.0	506.2	39.9
			Pop.	1,184	70	1,254	414	1,790 2,114 117 130	75	412 1,611	134	7,284	443 1,307 1,750	168 801 969
Survey	1964	Gross Res.	Acres	112.2		112.2	9.99	1111.8 81.6 5.8 3.7	3.4	29.8	38.3	581.0	219.5 282.1 501.6	17.1 107.5 124.6
		Net Res.	Acres	88.4		88.4	43.5	68.9 50.3 2.6	2.3	18.4	25.5	371.9	146.5 188.1 334.6	11.4 71.6 83.0
		0-D	Zone	7201	7203	1204	7001	6601 6602 6603 6604	6606	6608	6611	6100	6901 6902	6201 6202
			Unit	∞			6	10					11	12

		Total	Pop.	751	88	1,167	2,007	6,753 6,352 2,647	15,752	1,729	71	1,174	3,409	105,680	
	(Gross Res.	Acres	52,4	5°7	104.4	161.3	613.5 562.1 212.4	1388.0	78.9	3.9	105.8	305.6	8684.5	
	8 1	(Pop.			195	2,007	573 803	15,752	24	1,800	192	3,409	105,680	4,247
c	19	Gross Res.	Acres			17.4	161.3	51.2	1388.0	2.2	96.6	17.2	305.6	8684.5	384.7
Added Projection	7 9	í	Pop.			486	1,812	1,430	14,376	58	1,776	477	3,016	101,433	10,304
	1 9	Gross Res.	Acres			43.5	143.9	127.6	1265.0	5.1	7.48	42.7	270.3	8299.8	971.4
Area	7 4	(Pop.	32		486	1,326	1,430 2,010 32	10,936	58	1,718	477	2,037	91,129	10,304
	1 9	Gross Res.	Acres	2.9		43.5	100.4	127.6 179.5 2.9	957.9	5.1	79.3	42.7	182.7	7328.4	971.5
	6 9	1	Pop.				808	3,251	7,464		1,660	1 030	1,058	80,825	11,260
	1 9	Gross Res.	Acres				54.0	290.2	647.9		74.2	0 0	95.1	6356.9	1041.7
		1	Pop.	719	89		808	69 1,529 2,615	4,213	1,589	71,660	28	28	69,565	
Survey	1964	Gross Res.	Acres	49.5	4.5		54.0	16.9 131.3 209.5	357.7	66.5	3.9	3.2	3.2	5315.2	
		Net Res.	Acres	33.0	3.0		36.0	11.3 99.1 161.1	271.5	46.1	2.6	2.1	2.1	3502.5	
		0-D	Zone	6701	6703	6705		6301 6302 6303 6304	6305	6801	6501	7101	704/	S	riod
		!	Unit	13				14		15		SF4		TOTALS	Total By Period

92 MALMSTROM A.F.B. I. NEIGHBORHOOD UNITS ISBI (PROJECTED) 32 8002 2882 H-H 32 22.6 <u>.</u>... $\dot{\alpha}$ POPUL ATION 200 00 6 6 8 N-F 3 498 1950 URBAN TRANSPORTATION STUDY AREA 169 ñ 900 S-F 2 N 5 L Z 369 9 4 Ď. 800 14,767 М 0 S-F 2007 ø 12336 \$ [] 4 123 60 2 4 5 <u>10</u> 6,449 6,291 ō 2 ထ 748 <u>o</u> 4986 460 <u>~</u>i 250 S-F 4 340 945 976 \$23 N-F = 1227

GREAT FALLS

Business and Commercial Land Use Projections

The study and projections of business land use was done on an area-by-area basis, utilizing the following information:

- 1. Existing uses and vacant areas from the 1964 land use survey.
- The gross areas expected to be utilized in the future, from the economic study, and projections of consumer buying power.
- 3. Increased business land area per unit of floor area, because of newer trends of shopping center design and increased parking area ratios. Several publications about shopping center design were utilized.
- 4. A review of the trends in the Central Business District, as commented upon in the economic study.
- 5. A review of the growth along 10th Avenue South, both existing and proposed.
- 6. A review of existing and proposed shopping centers in other locations, incorporating all information available from developers and the economic survey interviews.
- 7. A review of planned roadway improvements, where increased potential for business land usage is expected.
- 8. A study of newly-developing residential areas, where need for new neighborhood shopping centers will exist when population and buying power are high enough.
- 9. A review of zoning maps (a) County zoning as it existed prior to the adverse Court decision, (b) new County zoning as recently proposed by the Planning Board staff, and (c) existing City zoning.

General comments on growth factors by each Neighborhood Unit are made in the previous section. Generally, the areas shown for expected development in the 1964-69 stage are those areas where development is now underway or where firm plans have been announced.

The following table gives the O-D Zones where business development is expected to occur, by gross acres, for each of the stage periods. These are illustrated on the 1981 Land Use Plan.

BUSINESS & COMMERCIAL LAND USE PROJECTIONS GROSS ACRES ADDED TO O-D ZONES BY STAGE PERIODS

Zone	1964-69	1969-74	1974-79	1979-81
6102			4.4	2.0
6202			1.5	. 5
6302	5.2	5.2	5.2	2.1
6601			4.0	1.8
6602			3.5	1.0
6702	3.5	3.8		
6703	18.0	11.0	7.0	3.0
6705	2.0	2.1		
6902		2.0	1.3	.7
7201		3.0	2.3	1.7
7204		4.0	3.4	2.6
7413	5.0	2.9		
7414	2.5	2.0		
7513			1.4	1.4
7703			2.7	.7
7901			4.0	1.6
7902	28.0	27.0	30.5	7.3
7903		. 3	. 2	. 2
8002	7.0	4.5		
8102	4.8	3.8	2.8	1.9
8103	2.5	2.0		
8104	15.0	4.0	3.4	2.6
Total Acres	93.5	77.6	77.6	31.1

Industrial Land Use Projections

The study and projections of industrial land use were done on an area-by-area basis, following most of the same general information items as listed in the section on business land projections.

Most of the Great Falls industries were contacted by personal interviews or letter questionnaires, and specific information on expansion plans was often available.

The gross acres of industrial land use expected to be added were computed from the economic study, on the basis of projected industrial employment. An increased allotment of industrial land was made because of modern trends of increased land usage through one-level plant design and increased areas for parking and loading.

As in the study of business land, local knowledge of specific plans of developers was utilized, along with considerations of rail and truck access, utilities, availability of level land, and relationship to existing industry.

The following table gives the O-D Zones where industrial development is expected to occur, by gross acres, for each of the stage periods. These are illustrated in the 1981 Land Use Plan.

INDUSTRIAL LAND USE PROJECTIONS

GROSS ACRES ADDED BY O-D ZONE

F	Total	1064 60	1060 74	1074 70	1070 01
Zone	Acres	1964-69	1969-74	1974-79	1979-81
6102	14.0	4.1	4.1	4.1	1.7
6103	30.0	8.9	8.9	8.9	3.3
6302	4.0	1.2	1.2	1.2	.4
6401	20.0	5.9	5.9	5.9	2.3
6501	20.0	5.9	5.9	5.9	2.3
6601	5.0	1.5	1.5	1.5	.5
6607	6.0	1.8	1.8	1.8	.6
6610	25.0	7.4	7.4	7.4	2.8
6611	14.0	4.1	4.1	4.1	1.7
6703	12.0	3.5	3.5	3.5	1.5
6704	25.0	7.4	7.4	7.4	2.8
6705	5.0	1.5	1.5	1.5	.5
6801	2.0	.6	.6	.6	.2
6901	35.0	10.4	10.4	10.4	3.8
7001	6.0	1.8	1.8	1.8	.6
7306	6.0	1.8	1.8	1.8	.6
7401	3.0	.9	.9	.9	.3
7402	20.0	5.9	5.9	5.9	2.3
7501	25.0	7.4	7.4	7.4	2.8
7602	65.0	19.3	19.3	19.3	7.1
7701	238.0	70.0	70.0	70.0	28.0
7702	55.0	16.3	16.3	16.3	6.1
8001	6.0	1.8	1.8	1.8	6
	641.0	189.4	189.4	189.4	72.8

Public and Semi-Public Land Use Projections

Personal interviews were conducted with the Public Schools, Parochial Schools, Great Falls College, the Hospitals, Libraries, Airport, Fire Department, Water Department, and Public Parks and Recreation Departments regarding their plans for new and improved facilities. Several reports were also reviewed. Information gained has all been mapped, showing existing and proposed sites for the following facilities:

- 1. Public Schools, by type
- 2. Parochial Schools
- 3. Great Falls College
- 4. Libraries
- 5. Parks
- 6. City Water Reservoirs and Other Property
- 7. Fire Stations
- 8. Airport Additions
- 9. Swimming Pools
- 10. Hospitals
- 11. Deaf and Blind School
- 12. Orphan's Home and School

These sites and facilities are shown on the 1981 Land Use Plan by color code and symbols.



